

Received  
KANSAS CORPORATION COMMISSION  
OCT 12 2023  
CONSERVATION DIVISION  
WICHITA, KS

BEFORE THE STATE CORPORATION COMMISSION  
OF THE STATE OF KANSAS

In the Matter of the Application of Hawkins ) Docket No.: 23-CONS-3270-CHOR  
Oil, LLC, to drill the Marsh #16 well as a )  
Deviated Wellbore, pursuant to K.A.R. 82-3-103a ) CONSERVATION DIVISION  
To be located in Section 6, Township 26 South, )  
Range 5 East, Butler County, Kansas. ) License No.: 32693  
)

Amended Application

COMES NOW, Hawkins Oil, LLC (“Hawkins”), and for its Application for Deviated Wellbore (“Application”) pursuant to K.A.R. 82-3-103a requests an order authorizing the drilling of the Marsh 16 well as a deviated wellbore to be located in Butler County, Kansas. In support of its Application, Hawkins states as follows:

1. Applicant is a limited liability company, with its principal place of business at 427 S. Boston Ave., Suite 915, Tulsa, Oklahoma, 74103. The Applicant holds Kansas Corporation operator’s license number 32693.
2. Hawkins Oil, LLC oil and gas operator’s License No. 32693 is valid until August 30<sup>th</sup>, 2024.
3. Hawkins owns and operates the Marsh Lease, a valid lease, in Section 6, Township 26 South, Range 5 East, Butler County, Kansas (subject “Lease”), and proposes to drill its Marsh #16 Horizontal Well as a well deviated more than 7° to be completed in the Arbuckle formation, for the production of oil and gas.
4. Applicant proposes to spud the Marsh #16 well at a surface location 2047 feet from the North line and 1145 feet from the East line of Section 6, Township 26 South, Range 5 East, Butler County, Kansas.

5. From the surface location described above, Hawkins proposes to drill the Marsh #16 to test the Arbuckle formation to a total depth of approximately 2681.08 feet TVD. The bottom of the hole will be located 2886 from the South line and 2060 from the East line in Section 6, Township 26 South, Range 5 East, Butler County, Kansas in the El Dorado field.

6. Hawkeye Directional, LLC (“Hawkeye”) and Hawkins have designed the Subject Well so that it will deviate Southwesterly 3° at 600 feet, increasing to 26.36° at 1378.62 feet and maintaining a deviation of 26.36° to a total depth of 2681.08 feet. Hawkins intends to produce from the Arbuckle formation. The anticipated top of the Arbuckle formation is 2550 feet. If completed, the Subject Well will have a string of casing from surface to the Arbuckle formation to be a perforated completion interval in the producing zone.

7. Drilling the proposed well pursuant to K.S.A. 82-3-103a will prevent economic waste and prevent disruption in a housing addition located near the production zone. As depicted on Exhibit “A”, Hawkins surface operations can be conducted outside the radius of the housing addition. Attached to Exhibit “A” is an area map. Hawkin’s geologists have determined that drilling the subject well into the Arbuckle formation is necessary to maximize the recovery of oil and gas reserves from the target reservoir, therefore preventing waste and disruption to the housing addition.

8. The correlative rights of the offset operators, lessees, and mineral owners will not be violated if this application is granted. Exhibit “B” is an Order granting the application for a well location exception for the Marsh #16 docket number 23-CONS-3126-CWLE dated February 9, 2023.

9. Hawkins requests that Commission assign the subject well a full production

allowable.

10. The subject well will be drilled, operated, and produced in compliance with the Commission's Rules and Regulations for the production of oil and gas from deviated wellbores. The granting of this application will not cause waste or violate the correlative rights of any party. The drilling of the subject well is necessary to produce hydrocarbon reserves from the Arbuckle formation underlying the subject lease.

11. Concurrent with the filing of its application, the applicant has mailed in the United States mail, postage paid, a copy of the application as required by K.A.R. 82-3-135a(b) to each operator or lessor of record and each unleased mineral owner within one-half mile of the proposed surface well site of the Marsh #16 in Section 6, Township 26 South, Range 5 East, Butler County, Kansas. A list of those individuals and the offset operator's map is attached hereto as Exhibit "C".

12. Upon the filing of this application, applicant will proceed to publish its notice of its application as required by K.A.R. 82-3-135a(d) in the Butler County Times-Gazette, published in Butler County, Kansas, and the Wichita Eagle, published in Wichita, Kansas. Upon completion of the publications, applicant will provide proof of the same to the Commission staff.

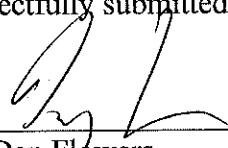
13. Attached hereto as Exhibit "D" is a plat demonstrating the surface and bottom hole locations, a plot map describing the drilling direction and inclination, a standard planning report geographic, and standard planning report for the Marsh #16 in Section 6, Township 26 South, Range 5 East, Butler County, Kansas. Exhibit "D" attachments are provided by Hawkeye Directional, LLC.

14. Applicant proposes to use C & G Drilling and Hawkeye Directional, LLC as the drilling contractors.

WHEREFORE, Hawkins asks that this application be docketed by the Commission and if no valid protests are timely received by the Commission, that the Commission grant Hawkins' application to drill the subject well as a deviated wellbore and assign it a full production allowable without incurring the time and expense of an evidentiary hearing. In the event a valid protest is timely filed, Hawkins requests that the Commission set this application for hearing and upon such hearing, grant the requested order, and for such other and further relief as the Commission deems necessary and proper.

Respectfully submitted,

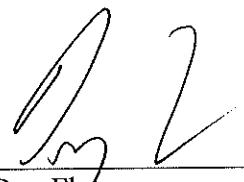
By:

  
Dan Flowers  
Hawkins Oil, LLC  
427 S. Boston Ave, Ste 915  
Tulsa, Oklahoma 74103  
[sonomare@outlook.com](mailto:sonomare@outlook.com)  
316-208-7590

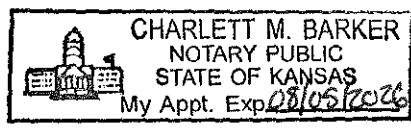
**VERIFICATION**

STATE OF KANSAS        )  
                            )  
                            ) ss:  
COUNTY OF SEDGWICK    )

I, Dan Flowers, of lawful age, being duly sworn, state: I am a representative of Hawkins Oil, LLC, Applicant in the above captioned matter, and that I have read the above Application, know its contents and that the statements made therein are true and correct to the best of my knowledge and belief.

  
\_\_\_\_\_  
Dan Flowers

SUBSCRIBED AND SWORN to before me this 11<sup>th</sup> day of October, 2023.



Charlett M Barker  
Notary Public

**CERTIFICATE OF SERVICE**

23-CONS-3270-CHOR

I, the undersigned, certify that a true copy of the attached Amended Application has been served by means of first class mail and electronic service on 10-12, 2023:

J. Hunt Hawkins  
Hawkins Oil, LLC  
427 S Boston Ave, Suite 915  
Tulsa, OK 74103-4114  
Hunt.hawkins@gmail.com

Jake Eastes, Geologist Specialist  
Kansas Corporation Commission  
266 N. Main St., Ste. 220  
Wichita, Kansas 67202-1513  
j.eastes@kcc.ks.gov

Kelcey Marsh, Litigation Counsel  
Kansas Corporation Commission  
Central Office  
266 N. Main St., Ste. 220  
Wichita, Kansas 67202-1513  
k.marsh@kcc.ks.gov

Jonathan R. Myers, Assistant General Counsel  
Kansa Corporation Commission  
266 N. Main St., Ste. 220  
Wichita, Kansas 67202-1513  
j.myers@kcc.ks.gov

And those people shown on Exhibit C attached to Amended Application.



Dan Flowers

**EXHIBIT "A"**

MARCH 5-19

MARCH 18

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MARCH 12

MARCH 10

35

Surface location  
2047 FNU 1145 FEL

SW/MidianRdn

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Page 15

Producing Zone location

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SCHOOL OF MANAGEMENT

254 ACCESS

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**EXHIBIT "B"**

20230209102517  
Kansas Corporation  
Commission

**THE STATE CORPORATION COMMISSION  
OF THE STATE OF KANSAS**

Before Commissioners:                    Susan K. Duffy, Chair  
    Dwight D. Keen  
    Andrew J. French

In the matter of the Application of Hawkins ) Docket No. 23-CONS-3126-CWLE  
Oil, LLC for a well location exception for its )  
Marsh #16 well, to be located in the SE/4 ) CONSERVATION DIVISION  
SW/4 NE/4 of Section 6, Township 26 South, )  
Range SE, Butler County Kansas. ) License No. 32693

**ORDER GRANTING APPLICATION**

The Commission rules as follows:

**I. JURISDICTION**

1. K.S.A. 74-623 provides the Commission exclusive jurisdiction and authority to regulate oil and gas activities in Kansas.

2. K.A.R. 82-3-108(a) provides that the setback requirement for oil and gas wells shall be 330 feet from any lease or unit boundary line, except as provided in subsection (b) or (c).

3. K.A.R. 82-3-108(b) provides that an oil well drilled to a total depth of less than 2,000 feet in any of the following counties in eastern Kansas shall be subject to a setback of 165 feet from any lease or unit boundary: Allen, Anderson, Atchison, Bourbon, Brown, Cherokee, Coffey, Crawford, Douglas, Elk, Franklin, Greenwood, Jackson, Jefferson, Johnson, Labette, Leavenworth, Linn, Lyon, Miami, Montgomery, Neosho, Osage, Shawnee, Wilson, Woodson, and Wyandotte. Further, wells drilled to a total depth of less than 2,500 feet in Chautauqua County are subject to the 165-foot setback.

4. K.A.R. 82-3-108(c) provides that the Commission may grant an exception to well setback requirements, and adjust assigned allowables, if necessary either to prevent waste or protect correlative rights.

5. K.A.R. 82-3-207 provides that a standard oil-well drilling unit shall be 10 acres, except that the standard drilling unit for counties and well depths listed in K.A.R. 82-3-108(b) shall be 2.5 acres.

## II. FINDINGS OF FACT

6. On November 3, 2022, Hawkins Oil, LLC (Operator) filed an Application requesting a well location exception and full allowable for its proposed Marsh #16 oil well (Subject Well). Operator intends to drill the Subject Well at a surface location 2,886 feet from the South line and 2,060 feet from the East line of Section 6, Township 26 South, Range 5 East in Butler County, Kansas.<sup>1</sup> The Subject Well's location will be less than 330 feet from the south boundary line of its oil and gas lease.<sup>2</sup>

7. Operator requests an exception pursuant to K.A.R. 82-3-108(c).<sup>3</sup> Operator seeks a well location exception for the Subject Well because the Subject Well will be drilled less than 330 feet from the nearest lease or unit boundary.<sup>4</sup> Operator alleges the proposed location is necessary as certain man-made structures interfere with the selection of drill sites for the Subject Well.<sup>5</sup> Operator also posits that the well location exception is necessary to prevent waste and protect correlative rights.<sup>6</sup>

8. Operator served and published notice at least 15 days before the issuance of this Order, as required under K.A.R. 82-3-108(f) and K.A.R. 82-3-135a(d).<sup>7</sup> No protest was filed under K.A.R. 82-3-135b.

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<sup>1</sup> See Application – Hawkins Oil, ¶ 4 (Nov. 3, 2022).

<sup>2</sup> Id. at ¶ 7.

<sup>3</sup> Id. at ¶ 10.

<sup>4</sup> Id. at ¶ 7.

<sup>5</sup> See id. at ¶ 11.

<sup>6</sup> Id.

<sup>7</sup> Operator's published notices provided an inaccurate docket number, but the Commission finds the notices were sufficiently detailed to put interested persons on notice. See Affidavit of Publication – Wichita Eagle and Affidavit of Publication – The Butler Times-Gazette (both filed Dec. 30, 2022).

**9. Commission Staff recommends that Operator's Application be granted. Further, Commission Staff believes the drilling of the Subject Well will prevent waste, protect correlative rights, and that granting Operator's application raises no pollution issues.**

### **III. CONCLUSIONS OF LAW**

- 10. The Commission has jurisdiction over Operator and this matter.**
- 11. Operator's Application was filed in accordance with the rules and regulations of the Commission and in accordance with Kansas statutes.**
- 12. Notice was properly served and published. No protest was filed.**
- 13. Operator's Application should be granted to prevent waste. Operator's Application appears protective of correlative rights, and raises no apparent pollution issues.**

#### **THEREFORE, THE COMMISSION ORDERS:**

**A. Operator's Application for a well location exception for the Subject Well under K.A.R. 82-3-108 is granted. The Subject Well is assigned a full allowable. The Subject Well shall have a standard drilling unit, except that the acreage of the drilling unit shall be reduced along the southern side to match the production unit boundary line.<sup>8</sup>**

**B. Operator's Application is being granted via summary proceeding; thus, this Order does not take effect until after the time for requesting a hearing has expired.<sup>9</sup> Any party may request a hearing on the above issues by submitting a written request setting forth the specific grounds upon which relief is sought, to the Commission at 266 N. Main, Suite 220, Wichita, Kansas 67202, within 15 days from the date of service of this Order.<sup>10</sup> If a hearing is not requested, then this Order shall become effective upon expiration of the time for requesting hearing.<sup>11</sup>**

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<sup>8</sup> Application, § 5, 6, and 11.

<sup>9</sup> See K.S.A. 77-537.

<sup>10</sup> See K.S.A. 77-542.

<sup>11</sup> See K.S.A. 77-537.

C. If this Order becomes effective, then any party may file and serve a petition for reconsideration pursuant to the requirements and time limits established by K.S.A. 77-529(a)(1).<sup>12</sup>

**BY THE COMMISSION IT IS SO ORDERED.**

Duffy, Chair; Keen, Commissioner; French, Commissioner.

Dated: 02/09/2023

*Lynn M. Retz*

Lynn M. Retz  
Executive Secretary

Mailed Date: 02/29/2023

KAM

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<sup>12</sup> See K.S.A. 55-606; K.S.A. 77-503(c); K.S.A. 77-531(b).

**CERTIFICATE OF SERVICE**

**23-CONS-3128-CWLE**

I, the undersigned, certify that a true copy of the attached Order has been served to the following by means of first class mail and electronic service on 02/08/2023.

JAKE EASTES, GEOLOGIST SPECIALIST  
KANSAS CORPORATION COMMISSION  
280 N. Main St., Ste. 220  
WICHITA, KS 67202-1513  
[Jestees@kcc.ks.gov](mailto:Jestees@kcc.ks.gov)

J. HUNT HAWKINS  
HAWKINS OIL, LLC  
427 S BOSTON AVE STE 915  
TULSA, OK 74103-4114

KELCEY MARSH, LITIGATION COUNSEL  
KANSAS CORPORATION COMMISSION  
CENTRAL OFFICE  
280 N. MAIN ST, STE 220  
WICHITA, KS 67202-1513  
[k.marsh@kcc.ks.gov](mailto:k.marsh@kcc.ks.gov)

/S/ KCC Docket Room  
KCC Docket Room

**Exhibit "C"**

**KANSAS GAS & ELECTRIC CO**

**Mailing Address:** ATTN: EVERGY PO BOX 418679 KANSAS CITY, MO

**64141-9679**

**Tract Description:** S06 , T26 , R05E , ACRES 62.9 , NE4 N RR & NE HWY  
196 EXC W760 N300 LESS ROW

**Status Address:** 4363 SW PARALLEL ST El Dorado 67042

**Owner:** HALE, MARCELLA LYNN; TOD

**Mailing Address:** 1567 CRYSTAL PASS ALLEN, TX 75002-0973

**Tract Description:** S06 , T26 , R05E , ACRES 40.2 , NE4 LYC NE HWY 196  
& SB RR EXC BEG S00W & 175N SE/C N440 W320 S310 SELY340 TO POB  
(SCALED)

**Owner:** JAAX, BOBBIE M; REV TRUST

**Mailing Address:** 3497 NW HWY 196 EL DORADO, KS 67042-9328

**Tract Description:** S06 , T26 , R05E , ACRES 206.9 , SW/4; W1570 SE/4;  
E1092.7 S085.3 SR/4 EXC S211.5 E391 LESS ROW (SCALED)

**Status Address:** 04498 SW 10TH ST

**Owner:** BURKHOLDER, STEPHEN; REV TR

**Mailing Address:** 4106 W CENTRAL AVE EL DORADO, KS 67042-3441

**Tract Description:** S06 , T26 , R05E , ACRES 2.8 , BEG S00W & 175N  
SE/C NE4 N440 W320 S310 SELY340 TO POB (SCALED)

**Status Address:** 04106 W CENTRAL AVB El Dorado 67042

**Vess Oil Corporation**

**Field Name:**

**El Dorado**

**Location:**

**T26S RSE Sec 6, NE SE NE SW**

**Mailing Address:** 1700 Waterfront #500

**Wichita, Kansas 67206**

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Kansas City MO 64141

U.S. POSTAL SERVICE

Certified Mail Fee

\$4.35

\$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ 11.00
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 0.00
<input type="checkbox"/> Adult Signature Required	\$ 0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ 0.00

Postage

\$2.31

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Total Postage and Fees

\$6.66

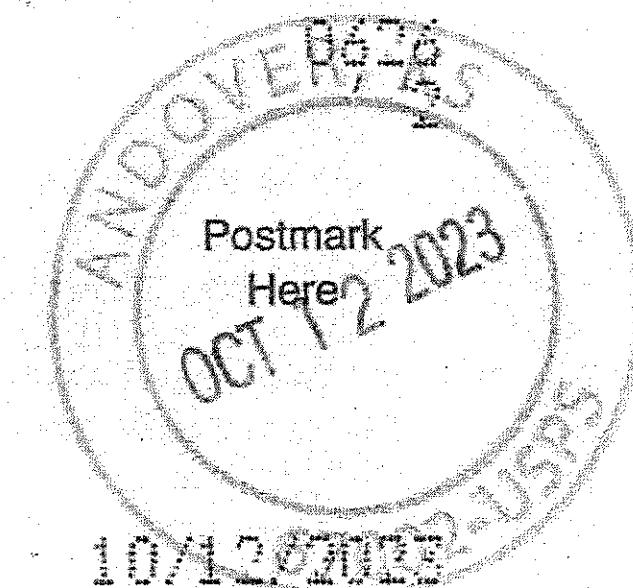
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Kansas Gas 3 Elutive

Street and Apt. No., or PO Box No.

Every P.O. Box 418671  
Kansas City, MO 64141

City, State, ZIP+



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Wichita KS 67206 MAIL USE

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|--|---------|
| <input type="checkbox"/> Return Receipt (hardcopy)           | \$ 1.00 |
| <input type="checkbox"/> Return Receipt (electronic)         | \$ 1.00 |
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| <input type="checkbox"/> Adult Signature Required            | \$ 1.00 |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ 1.00 |

Postage

\$ 2.31

Total Postage and Fees

\$ 6.66

Sent To

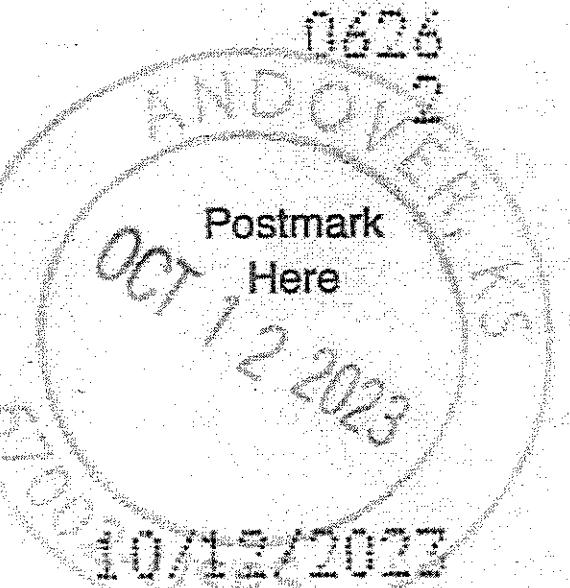
Vee's Oil Corporation

Street and Apt. No., or PO Box No.

1700 Waterfront #500

City, State ZIP+4®

Wichita, KS 67206



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Allen, TX 75011

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- |  |                 |
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| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ <u>10.00</u> |

Postage

\$2.31

Total Postage and Fees

\$ 6.66

Sent To

Hale, Marcell Lynn, Todd

Street and Apt. No., or PO Box No.

1567 Crystal Bass

City, State, ZIP+4®

Allen TX 75002-0973

04/26

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Here

04/26/2023

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E1 Dorado, KS 67042

Certified Mail Fee

\$4.35

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Extra Services & Fees (check box, add fee as appropriate)

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Total Postage and Fees

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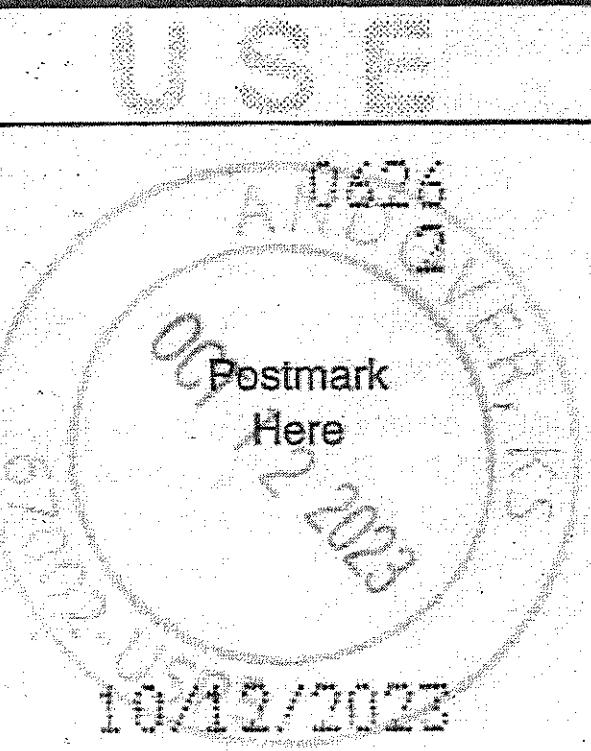
Bookholder, Stephen, LCV TH

Street and Apt. No., or PO Box No.

4106 W Central Ave

City, State, ZIP®

E1 Dorado, KS 67042



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El Dorado, KS 67042

Certified Mail Fee      \$4.35

\$                                  \$0.00

Extra Services & Fees (check box, add fee as appropriate)

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|--|----------------|
| <input type="checkbox"/> Return Receipt (hardcopy)           | \$ <u>0.00</u> |
| <input type="checkbox"/> Return Receipt (electronic)         | \$ <u>0.00</u> |
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| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ <u>0.00</u> |

Postage      \$2.31

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Total Postage and Fees      \$0.66

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Sent To

Fox, Bobbie M; Rev SR

Street and Apt. No., or PO Box No.

3497 NW Hwy 196

City, State, ZIP®

El Dorado, KS 67042

0626

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Postmark

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OCT 12 2023

10/12/2023

ADAMS 8

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NW Parallel St

NW Parallel St

PORTER D 87

MARSH A 5

MARSH A 9

MARSH A 7

LINN 2  
LINN 4

D PORTER 92

MARSH 51

Hawkins Oil LLC

T26S RSE Sec 6

Marsh Lease

D PORTER 89

MARSH A 4

MARSH 5-W

MARSH 49

LINN 1

LINN 1

D PORTER 90

MARSH A 13

Drilling Unit Location

T26S RSE Sec 6

2047' FNL

1145' FEL

D PORTER 88

Well Location

T26S RSE Sec 6

2886' FNL

2060' FWL

2515' Estimated TD

Vess Oil Corporation

T26S Sec 6 RSE

D. Porter Lease

MARSH A 15

MARSH A 6

LINN 3

SW Hwy 254 Access

Vess Oil Corporation

T26S Sec 6 RSE

Barnhill A Lease

SW Hwy 254

SW Exit W Ramp...

MAT

BARNHILL A 25

Barnhill A 33

Barnhill A 32

Barnhill A 31

SW Entrance E Ramp

MAT

BARNHILL A 23

Barnhill A 22

BARNHILL A 21

MATT

**Exhibit "D"**

# Hawkins Oil, LLC

## PROJECT DETAILS: Butler County, KS

Project: Butler County, KS  
 Site: SEC 6 - T26S - R5E  
 Well: Marsh #16  
 Wellbore: OH  
 Design: Plan #1



Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: Kansas North 1501

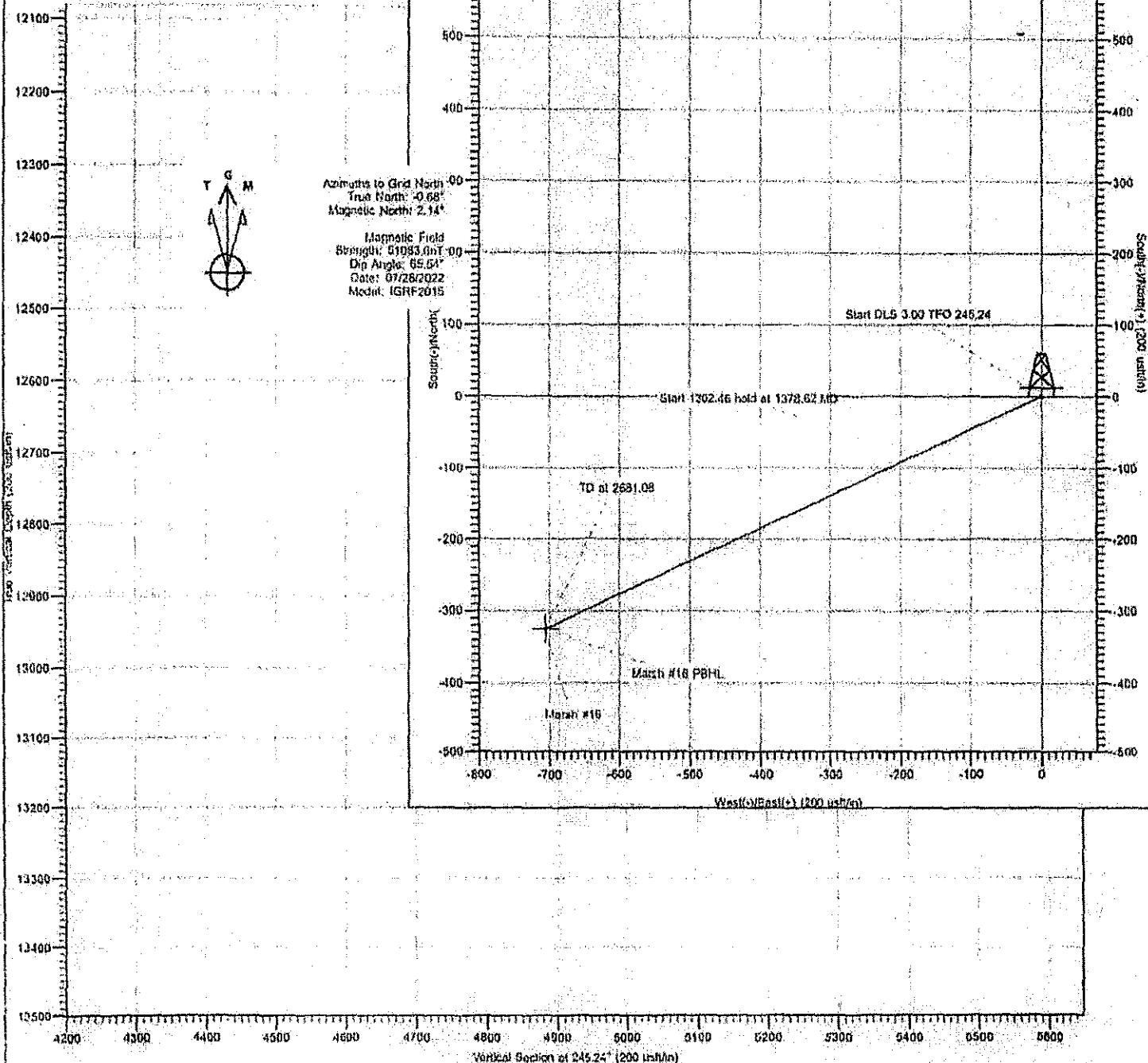
North Reference: Grid

System Datum: Mean Sea Level

To convert a True Direction to a Grid Direction, Subtract 0.68°  
 To convert a Magnetic Direction to a True Direction, Add 2.62° East  
 To convert a Magnetic Direction to a Grid Direction, Add 2.14°

## WELL DETAILS: Marsh #16

+N/S	+E/W	GL 1405 + 10' KB @ 1421.00ft	
0.00	0.00	Northing      Easting      Latitude      Longitude	
-185281.51	4311643.38	37° 48' 10.600 N	95° 55' 17.200 W



# Hawkins Oil, LLC

## PROJECT DETAILS: Butler County, KS

Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: Kansas North 1601

### North Reference Grid

System Datum: Mean Sea Level

To convert a True Direction to a Grid Direction, Subtract 0.68°  
 To convert a Magnetic Direction to a True Direction, Add 2.82° East  
 To convert a Magnetic Direction to a Grid Direction, Add 2.14°

## WELL DETAILS: Marsh #16

GL 1405' + 16' KB @ 1421.00 usf

*N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	-185261.54	231043.36	37° 49' 10.600 N	00° 55' 17.200 W

### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	*N-S	+E-W	Deg	TFace	VSeqd
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00
3	1378.62	26.36	245.24	1347.95	-03.16	-180.31	3.00	215.24	108.56
4	2681.06	26.36	245.24	2515.00	-325.34	-705.43	0.00	0.00	776.84

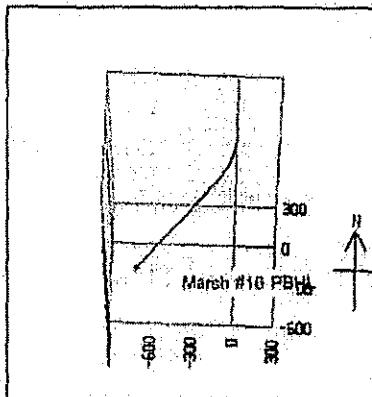
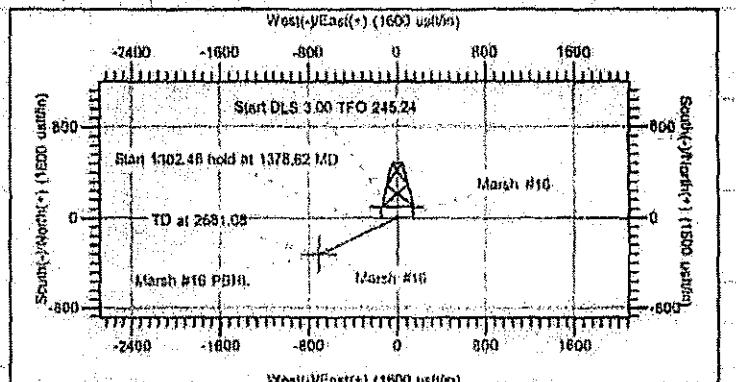
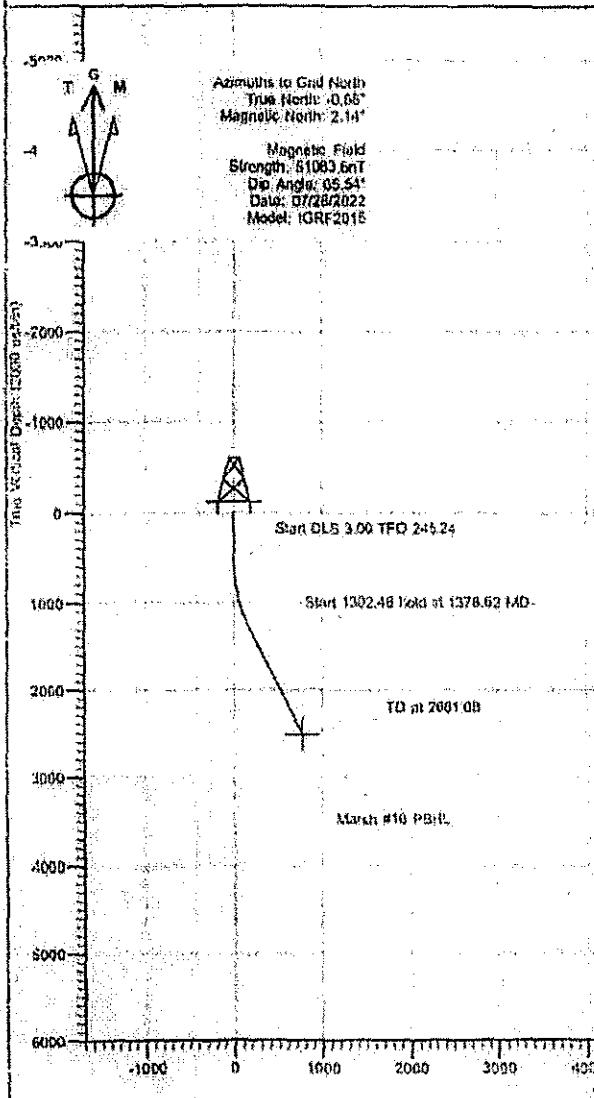
.7000

### DESIGN TARGET DETAILS

Name	TVD	*N-S	+E-W	Northing	Easting	Latitude	Longitude
Marsh #16 PBHL	2515.00	-325.34	-705.43	-105570.07	2310937.95	37° 49' 7.468 N	00° 55' 26.036 W

Azimuths to Grid North  
 True North: 0.68°  
 Magnetic North: 2.14°

Magnetic Field Strength: 81083.6nT  
 Dip Angle: 05.54°  
 Date: 07/28/2022  
 Model: IGRF2015



Project: Butler County, KS  
 Site: SEC 6 - T26S - R5E  
 Well: Marsh #16  
 Wellbore: OH  
 Design: Plan #1

# **Hawkins Oil, LLC**

**Butler County, KS  
SEC 6 - T26S - R5E  
Marsh #16**

**OH**

**Plan: Plan #1**

## **Standard Planning Report - Geographic**

**28 July, 2022**



# Hawkeye Directional, LLC

## Planning Report - Geographic

Database:	HED_Compass_DSN	Location/Coordinate Reference:	Well March #16
Company:	Hawkins Oil, LLC	TVD Reference:	GL 1405' + 16' KB @ 1421.00usft
Project:	Butler County, KS	MD Reference:	GL 1405' + 16' KB @ 1421.00usft
Site:	SEC 6 - T26S - R5E	North Reference:	Grid
Well:	March #16	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project:	Butler County, KS		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo. Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas North 1501		

Site:	SEC 6 - T26S - R5E				
Site Position:		Northing:	-185,251.54 usft	Latitude:	37° 49' 10,600 N
From:	Lat/Long	Easting:	2,311,643.39 usft	Longitude:	96° 55' 17,200 W
Position Uncertainty:	0.00 usft	Slot Radius:	13,200 in	Grid Convergence:	0.60 °
Well:	March #16				
Well Position	+N/S +E/W	0.00 usft	Northing: Easting:	-185,251.54 usft 2,311,643.39 usft	Latitude: Longitude:
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level: 1,405.00 usft

Wellbore:	OH				
Magnetic:	Model Name:	Sample Date:	Declination (D):	Dip Angle (I):	Field Strength (G):
	IGRF2015	07/28/22	2.82	85.54	51,083,584190.67

Design:	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/S (usft)	+E/W (usft)	Direction (°)	245.24
	0.00	0.00	0.00		

Plan Survey Tool Program:	Date:	07/28/22	
Depth From:	Depth To:	Survey (Wellbore)	
(usft)	(usft)	Tool Name:	Remarks:
1	0.00	2,681.08 Plan #1 (OH)	MWD OWSG MWD - Standard

Plan Sections									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Dip Rate (ft/100ft)	Build Rate (CMD/ft)	Turn Rate (FOOT/ft)	TPO (ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,378.82	26.36	245.24	1,347.95	-83.16	180.31	3.00	3.00	-13.06	245.24
2,681.08	26.36	245.24	2,615.00	-335.34	-705.43	0.00	0.00	0.00	0.00 Marsh #16 PBHL

# Hawkeye Directional, LLC

## Planning Report - Geographic

Database:	HED_Compass_DSN		Local Coordinate Reference:		Well Marsh #16					
Company:	Hawkins Oil, LLC		TVD Reference:		GL 1405' + 18' KB @ 1421.00psi					
Project:	Buller County, KS		MD Reference:		GL 1405' + 18' KB @ 1421.00psi					
Site:	SEC 6 - T2S - R5E		North Reference:		Grid					
Well:	Marsh #16		Survey Calculation Method:		Minimum Curvature					
Wellbore:	OH									
Drillbit:	Pish #1									
<b>Planned Survey</b>										
Measurement	Depth (ft)	Inclination (deg)	Azimuth (deg)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)		
0.00	0.00	0.00	0.00	0.00	0.00	-185,251.54	2,311,643.39	37° 49' 10.600 N	96° 55' 17.200 W	
100.00	0.00	0.00	100.00	100.00	0.00	-185,251.54	2,311,643.39	37° 49' 10.600 N	96° 55' 17.200 W	
200.00	0.00	0.00	200.00	200.00	0.00	-185,251.54	2,311,643.39	37° 49' 10.600 N	96° 55' 17.200 W	
300.00	0.00	0.00	300.00	300.00	0.00	-185,251.54	2,311,643.39	37° 49' 10.600 N	96° 55' 17.200 W	
400.00	0.00	0.00	400.00	400.00	0.00	-185,251.54	2,311,643.39	37° 49' 10.600 N	96° 55' 17.200 W	
500.00	0.00	0.00	500.00	500.00	0.00	-185,251.54	2,311,643.39	37° 49' 10.600 N	96° 55' 17.200 W	
<b>Start DLS 3,000 TFO 245.24</b>										
600.00	3.00	245.24	599.95	-1.10	-2.38	-185,262.64	2,311,641.01	37° 49' 10.589 N	96° 55' 17.230 W	
700.00	6.00	245.24	699.63	-4.38	-9.50	-185,255.92	2,311,633.88	37° 49' 10.558 N	96° 55' 17.310 W	
800.00	9.00	245.24	798.77	-9.85	-21.35	-185,251.39	2,311,622.03	37° 49' 10.505 N	96° 55' 17.467 W	
900.00	12.00	245.24	897.08	-17.48	-37.90	-185,269.02	2,311,606.49	37° 49' 10.432 N	96° 55' 17.675 W	
1,000.00	15.00	245.24	994.31	-27.25	-59.10	-185,278.80	2,311,584.29	37° 49' 10.338 N	96° 55' 17.940 W	
1,100.00	18.00	245.24	1,090.18	-39.15	-84.88	-185,280.69	2,311,560.50	37° 49' 10.223 N	96° 55' 18.203 W	
1,200.00	21.00	245.24	1,184.43	-53.13	-115.19	-185,304.67	2,311,520.19	37° 49' 10.088 N	96° 55' 18.643 W	
1,300.00	24.00	245.24	1,276.81	-69.15	-149.94	-185,320.69	2,311,493.45	37° 49' 9.934 N	96° 55' 19.078 W	
1,378.62	26.36	245.24	1,347.95	-83.16	-180.31	-185,334.70	2,311,463.07	37° 49' 9.799 N	96° 55' 19.459 W	
<b>Start 1302.48 hold at 1378.62 MD</b>										
1,400.00	26.36	245.24	1,367.11	-87.13	-188.93	-185,339.67	2,311,454.45	37° 49' 9.761 N	96° 55' 19.667 W	
1,500.00	26.36	245.24	1,456.71	-105.73	-229.26	-185,357.27	2,311,414.14	37° 49' 9.582 N	96° 55' 20.072 W	
1,600.00	26.36	245.24	1,546.32	-124.32	-289.57	-185,375.86	2,311,373.82	37° 49' 9.403 N	96° 55' 20.577 W	
1,700.00	26.36	245.24	1,635.92	-142.92	-309.88	-185,394.46	2,311,333.50	37° 49' 9.224 N	96° 55' 21.082 W	
1,800.00	26.36	245.24	1,725.52	-161.51	-350.20	-185,413.05	2,311,293.18	37° 49' 9.045 N	96° 55' 21.587 W	
1,900.00	26.36	245.24	1,815.13	-180.10	-390.52	-185,431.64	2,311,252.87	37° 49' 8.866 N	96° 55' 22.092 W	
2,000.00	26.36	245.24	1,904.73	-198.70	-430.84	-185,450.24	2,311,212.55	37° 49' 8.687 N	96° 55' 22.597 W	
2,100.00	26.36	245.24	1,994.33	-217.28	-471.15	-185,468.83	2,311,172.23	37° 49' 8.508 N	96° 55' 23.102 W	
2,200.00	26.36	245.24	2,083.94	-235.89	-511.47	-185,487.43	2,311,131.91	37° 49' 8.329 N	96° 55' 23.607 W	
2,300.00	26.36	245.24	2,173.64	-254.48	-551.79	-185,606.02	2,311,091.60	37° 49' 8.150 N	96° 55' 24.112 W	
2,400.00	26.36	245.24	2,263.14	-273.07	-592.11	-185,624.62	2,311,051.20	37° 49' 7.971 N	96° 55' 24.617 W	
2,500.00	26.36	245.24	2,352.75	-291.67	-632.43	-185,643.21	2,311,010.96	37° 49' 7.792 N	96° 55' 25.122 W	
2,600.00	26.36	245.24	2,442.35	-310.28	-672.74	-185,661.80	2,310,970.64	37° 49' 7.613 N	96° 55' 25.527 W	
2,681.08	26.36	245.24	2,515.00	-326.34	-705.43	-185,676.88	2,310,937.95	37° 49' 7.468 N	96° 55' 26.036 W	
TD at 2681.08										
<b>Design Targets</b>										
Target Name:		Dip Angle:	Dip Dir:	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
Marsh #16 PBH	0.00	0.00	2,515.00	-326.34	-705.43	-185,576.88	2,310,937.95	37° 49' 7.468 N	96° 55' 26.030 W	
- plan hits target center										
- Point										
<b>Plan Annotations</b>										
Measurement	Vertical Depth (ft)	Local Coordinates		Comment						
	(ft)	+N-S (ft)	+E-W (ft)	(ft)	(ft)					
500.00	500.00	0.00	0.00			Start DLS 3,000 TFO 245.24				
1,378.62	1,347.95	-83.16	-180.31			Start 1302.48 hold at 1378.62 MD				
2,681.08	2,515.00	-326.34	-705.43			TD at 2681.08				