

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

MAY 18 2018

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

AS DRILLED PLAT

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35579	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 7575	⁵ Property Name SUSCO 16 STATE	⁶ Well Number 10IH
⁷ GRID No. 372171	⁸ Operator Name HILCORP ENERGY COMPANY	⁹ Elevation 6916

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	15	32 N	8 W		2000	SOUTH	1691	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	16	32 N	8 W		1864	NORTH	684	WEST	SAN JUAN

¹² Dedicated Acres 640.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 LEGEND:

- = SURFACE LOCATION
- = BOTTOM HOLE LOCATION
- ⊙ = FOUND 1962 B.L.M. BRASS CAP
- ⊛ = EXISTING WELL
- X = ENTRY POINT
- = TAKE POINT

NOTE:
BEARINGS & DISTANCES SHOWN
ARE REFERENCED TO THE
NEW MEXICO COORDINATE
SYSTEM, WEST ZONE, NAD 83,
UNLESS OTHERWISE NOTED.

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Priscilla Shorty 5/17/18
Signature _____ Date _____
Printed Name Priscilla Shorty
E-mail Address pshorty@hilcorp.com

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and

Original C102 Attached

16 LEGEND:

STATE OF NM V-88-1

USA SF-079353

SECTION 15

SECTION 16

USA SF-079380

16 BOTTOM HOLE LOCATION

SEC. 16, T32N, R8W
1864' FNL, 684' FWL
LAT: 36.985946 N
LONG: 107.686918 W
NAD 83
LAT: 36.985943 N
LONG: 107.686303 W
NAD 27

TAKE POINT

SEC. 16, T32N, R8W
2604' FNL, 831' FEL
LAT: 36.9839570' N
LONG: 107.6743450' W
NAD 83
LAT: 36.9839572' N
LONG: 107.674042385' W
NAD 27

ENTRY POINT

SEC. 16, T32N, R8W
2640' FNL, 584' FEL
LAT: 36.983785 N
LONG: 107.673503 W
NAD 83
LAT: 36.983781 N
LONG: 107.672889 W
NAD 27

SURFACE LOCATION

SEC. 15, T32N, R8W
2000' FSL, 1691' FWL
LAT: 36.9820159' N
LONG: 107.6657168' W
NAD 83
LAT: 36.982075' N
LONG: 107.6657169' W
NAD 27

NMOCD

MAY 17 2018

Form C-102

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State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

DISTRICT III Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35579	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 7575	⁵ Property Name SUSCO 16 STATE	⁶ Well Number 101H
⁷ GRID No. 372171	⁸ Operator Name HILCORP ENERGY COMPANY	⁹ Elevation 6916

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	15	32 N	8 W		2000	SOUTH	1691	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	16	32 N	8 W		1937	NORTH	753	WEST	SAN JUAN

¹² Dedicated Acres 640.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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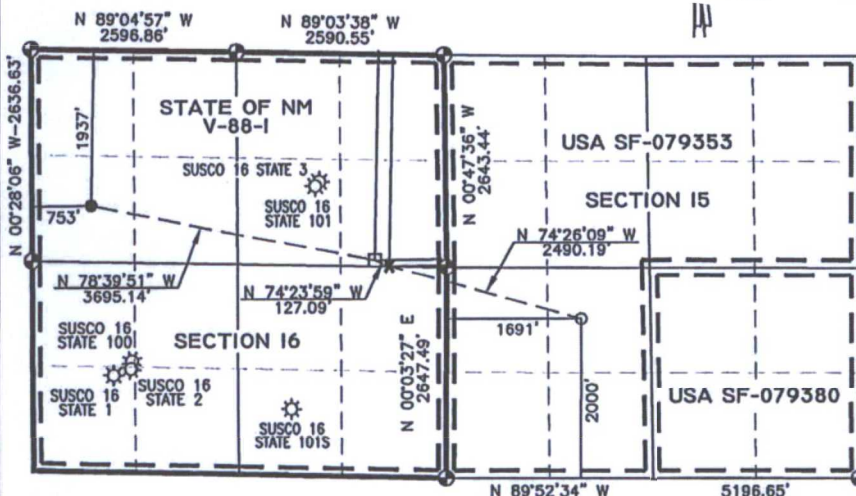
NO ALLOWABLE WILL BE ASS
OR A NO

COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
APPROVED BY THE DIVISION

DENIED

BY: Amy H. Vermersch
DATE: 5/17/18 (505) 334-6178 Ext. 113

- 16 LEGEND:**
○ = SURFACE LOCATION
● = BOTTOM HOLE LOCATION
⊙ = FOUND 1962 B.L.M. BRASS CA
⊛ = EXISTING WELL
X = ENTRY POINT
□ = TAKE POINT

**BOTTOM HOLE LOCATION**

SEC. 16, T32N, R8W
1937' FNL, 753' FWL
LAT: 36.9859679° N
LONG: 107.6867459° W
NAD 83
LAT: 36°59.15788' N
LONG: 107°41.16787' W
NAD 27

TAKE POINT

SEC. 16, T32N, R8W
2804' FNL, 831' FEL
LAT: 36.9839570° N
LONG: 107.6743450° W
NAD 83
LAT: 36°59.03722' N
LONG: 107°40.42385' W
NAD 27

ENTRY POINT

SEC. 16, T32N, R8W
2637' FNL, 709' FEL
LAT: 36.9838625° N
LONG: 107.6739261° W
NAD 83
LAT: 36°59.03155' N
LONG: 107°40.39872' W
NAD 27

SURFACE LOCATION

SEC. 15, T32N, R8W
2000' FSL, 1691' FWL
LAT: 36.9820159° N
LONG: 107.6657168° W
NAD 83
LAT: 36°58.92075' N
LONG: 107°39.90619' W
NAD 27

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Priscilla Shorty 2/15/18
Signature _____ Date _____
Printed Name Priscilla Shorty
pshorty@hilcorp.com
E-mail Address _____

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

2/11/14
Date of Survey _____
Signature and Seal of Professional Surveyor:
17078
Certificate Number

Hilcorp Deviation Report

Well Name: SUSCO 16 STATE #101H

Operator HILCORP SAN JUAN, L.P.	Legal WellName SUSCO 16 STATE #101H	API / UWI 3004535579	County San Juan	State/Province New Mexico
Surface Legal Location 015-032N-008W-K	North/South Distance (ft) 2,000.0	N/S Ref FSL	East/West Distance (ft) 1,691.0	E/W Ref FWL

Date	Description INCLINATION SURVEY
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Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
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Date 4/26/2018	Description DIRECTIONAL SURVEY
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Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
4/26/2018	523.00	0.00	0.00	IncAzi-MWD	Downhole Drilling Services
4/26/2018	544.00	0.90	88.20	IncAzi-MWD	Downhole Drilling Services
4/26/2018	605.00	0.40	313.70	IncAzi-MWD	Downhole Drilling Services
4/26/2018	666.00	2.10	288.80	IncAzi-MWD	Downhole Drilling Services
4/26/2018	729.00	3.80	283.80	IncAzi-MWD	Downhole Drilling Services
4/26/2018	792.00	5.30	286.30	IncAzi-MWD	Downhole Drilling Services
4/26/2018	855.00	6.70	284.10	IncAzi-MWD	Downhole Drilling Services
4/26/2018	918.00	7.70	281.40	IncAzi-MWD	Downhole Drilling Services
4/26/2018	981.00	9.20	279.30	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,044.00	10.70	280.60	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,107.00	11.60	283.00	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,169.00	12.60	284.40	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,232.00	14.10	286.30	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,295.00	14.20	284.20	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,358.00	15.40	284.60	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,421.00	17.30	284.10	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,484.00	17.70	285.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,547.00	18.40	284.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,609.00	19.80	284.20	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,672.00	21.80	283.40	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,735.00	22.40	283.60	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,798.00	23.10	285.00	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,861.00	24.90	284.60	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,924.00	27.00	284.10	IncAzi-MWD	Downhole Drilling Services
4/26/2018	1,987.00	27.90	284.00	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,049.00	29.30	283.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,112.00	30.60	284.30	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,175.00	31.20	284.60	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,238.00	32.40	284.50	IncAzi-MWD	Downhole Drilling Services

I, the undersigned, certify that I acting in my capacity as Wellsite Supervisor for Hilcorp Energy Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

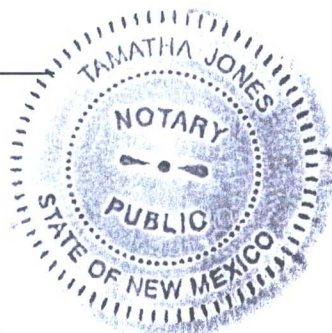

Craig Lingo

Subscribed and sworn to me this 17th of May, 2018


Tamatha Jones

Notary Public in and for San Juan County, New Mexico

My Commission expires March 12, 2022



NMOCD

MAY 17 2018

DISTRICT III

Well Name: SUSCO 16 STATE #101H

Survey Data					
Date	MD (ftKB)	Incl (*)	Azm (*)	Method	Survey Company
4/26/2018	2,301.00	32.70	285.00	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,364.00	33.20	285.30	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,426.00	34.50	285.10	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,489.00	38.60	284.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,550.00	40.30	284.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,612.00	41.50	286.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,673.00	44.20	285.70	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,734.00	46.10	286.30	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,796.00	47.90	286.50	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,857.00	48.30	286.60	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,918.00	49.00	284.30	IncAzi-MWD	Downhole Drilling Services
4/26/2018	2,980.00	50.60	285.50	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,041.00	52.20	285.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,102.00	52.70	285.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,163.00	53.40	286.30	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,225.00	54.60	286.60	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,286.00	55.30	286.40	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,347.00	56.40	287.30	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,409.00	57.60	288.00	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,471.00	58.60	287.40	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,534.00	59.80	286.20	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,597.00	60.60	286.20	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,660.00	61.40	285.70	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,723.00	62.40	285.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,786.00	63.60	285.60	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,849.00	63.10	285.20	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,912.00	63.50	285.70	IncAzi-MWD	Downhole Drilling Services
4/26/2018	3,975.00	63.30	285.40	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,037.00	63.60	285.80	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,100.00	63.20	284.80	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,163.00	63.10	286.10	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,226.00	63.00	286.30	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,289.00	62.90	286.40	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,352.00	63.00	286.50	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,415.00	63.30	287.50	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,478.00	62.60	286.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,541.00	62.70	286.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,604.00	62.40	286.70	IncAzi-MWD	Downhole Drilling Services

I, the undersigned, certify that I acting in my capacity as Wellsite Supervisor for Hilcorp Energy Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.


Craig Lingo

Subscribed and sworn to me this 17th of May, 2018

Tamatha Jones

Notary Public in and for San Juan County, New Mexico

My Commission expires March 12, 2022



Well Name: SUSCO 16 STATE #101H

Operator HILCORP SAN JUAN, L.P.	Legal WellName SUSCO 16 STATE #101H	API / UWI 3004535579	County San Juan	State/Province New Mexico
Surface Legal Location 015-032N-008W-K	North/South Distance (ft) 2,000.0	N/S Ref FSL	East/West Distance (ft) 1,691.0	E/W Ref FWL

Date 4/26/2018	Description DIRECTIONAL SURVEY
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Survey Data					
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
4/26/2018	4,604.00	62.40	286.70	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,638.00	69.73	291.00	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,669.00	72.66	291.77	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,701.00	76.12	292.60	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,732.00	77.63	291.45	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,764.00	80.94	290.97	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,795.00	82.66	290.02	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,826.00	84.29	290.59	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,858.00	85.77	290.17	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,889.00	87.28	288.99	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,921.00	88.16	288.42	IncAzi-MWD	Downhole Drilling Services
4/26/2018	4,983.00	89.73	286.81	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,046.00	90.27	285.08	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,109.00	89.16	283.41	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,172.00	87.75	282.99	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,235.00	87.12	282.16	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,297.00	87.65	281.84	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,360.00	89.87	279.80	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,423.00	88.82	278.08	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,486.00	87.75	278.23	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,549.00	86.91	279.22	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,612.00	89.63	280.62	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,674.00	92.32	281.50	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,737.00	91.01	281.47	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,800.00	87.11	276.83	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,863.00	87.72	277.98	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,926.00	87.96	276.65	IncAzi-MWD	Downhole Drilling Services
4/26/2018	5,989.00	86.48	273.47	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,050.00	85.66	270.75	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,111.00	86.11	273.86	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,173.00	88.39	276.15	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,234.00	91.04	278.69	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,295.00	91.78	277.93	IncAzi-MWD	Downhole Drilling Services

I, the undersigned, certify that I acting in my capacity as Wellsite Supervisor for Hilcorp Energy Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

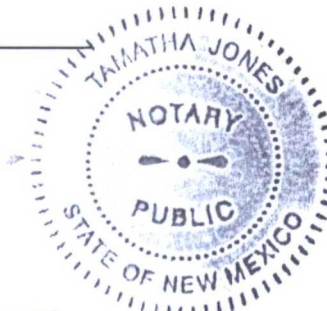

Craig Lingo

Subscribed and sworn to me this 17th of May, 2018


Tamatha Jones

Notary Public in and for San Juan County, New Mexico

My Commission expires March 12, 2022



Well Name: SUSCO 16 STATE #101H

Survey Data					
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
4/26/2018	6,357.00	92.55	276.78	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,418.00	93.52	277.04	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,479.00	91.61	277.71	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,540.00	91.75	278.26	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,602.00	90.67	281.24	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,663.00	91.31	281.74	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,724.00	90.97	282.65	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,786.00	92.18	282.92	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,847.00	90.71	283.90	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,908.00	91.21	284.35	IncAzi-MWD	Downhole Drilling Services
4/26/2018	6,969.00	91.54	283.67	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,031.00	92.35	283.57	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,092.00	90.47	284.47	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,153.00	91.81	283.94	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,215.00	92.69	283.31	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,276.00	90.97	281.25	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,337.00	88.49	279.85	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,398.00	89.80	280.03	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,460.00	88.29	281.37	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,521.00	87.14	281.21	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,582.00	88.83	281.35	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,644.00	88.29	279.33	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,705.00	89.46	280.02	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,766.00	90.13	280.19	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,827.00	90.87	280.36	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,889.00	91.98	279.74	IncAzi-MWD	Downhole Drilling Services
4/26/2018	7,950.00	89.97	281.00	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,011.00	89.19	278.98	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,072.00	89.16	279.36	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,134.00	90.94	282.28	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,196.00	91.18	282.09	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,259.00	88.46	282.43	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,322.00	89.53	282.42	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,385.00	90.00	281.16	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,448.00	90.84	280.80	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,511.00	92.05	280.10	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,551.00	92.78	280.47	IncAzi-MWD	Downhole Drilling Services
4/26/2018	8,619.00	92.78	280.47	IncAzi-MWD	Downhole Drilling Services

I, the undersigned, certify that I acting in my capacity as Wellsite Supervisor for Hilcorp Energy Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.


Craig Lingo

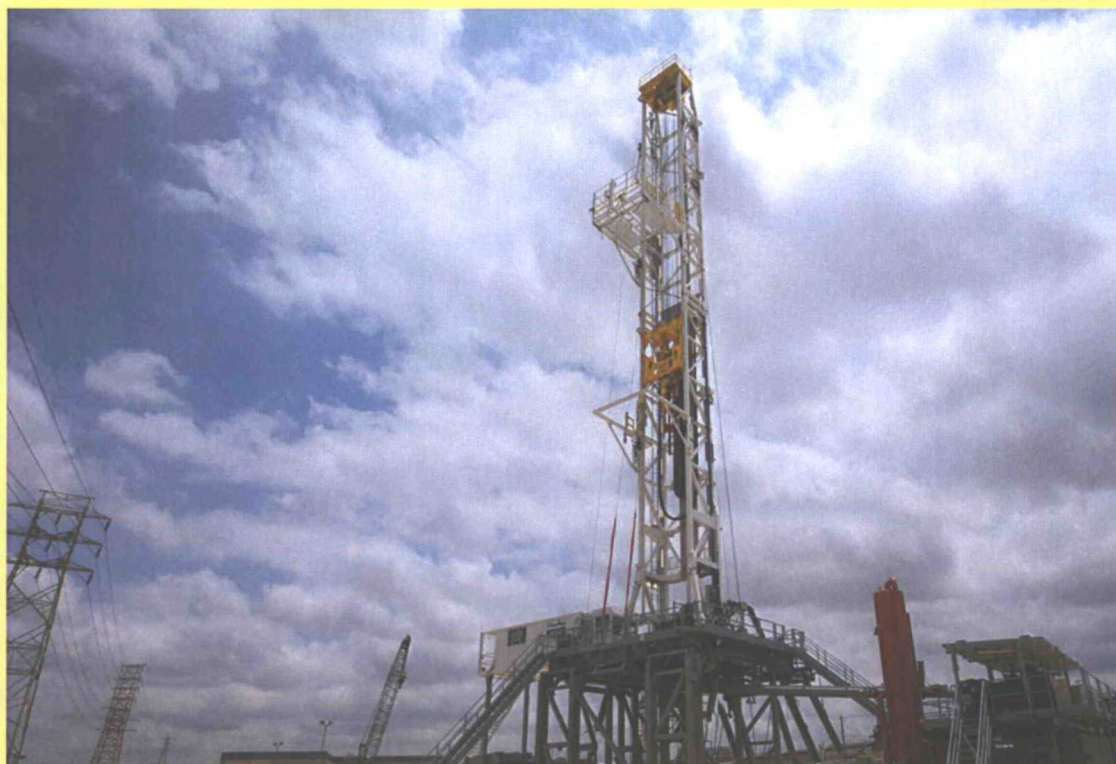
Subscribed and sworn to me this 17th of May, 2018



Notary Public in and for San Juan County, New Mexico

My Commission expires March 12, 2022





**END OF WELL
REPORT
FOR**

**HILCORP ENERGY
SUSCO 16 STATE 101H
SAN JUAN, NEW MEXICO**

AZTEC 777

May 13, 2018

NMOCD

MAY 17 2018

DISTRICT III

**Mike Grupa
Sr. Directional Coordinator**

JOB NO. HE-18086



HILCORP ENERGY COMPANY
SUSCO 16 STATE 101H ST
SAN JUAN COUNTY, NEW MEXICO
6916' GL + 15' KB



WELL DETAILS: Susco 16 State 101H

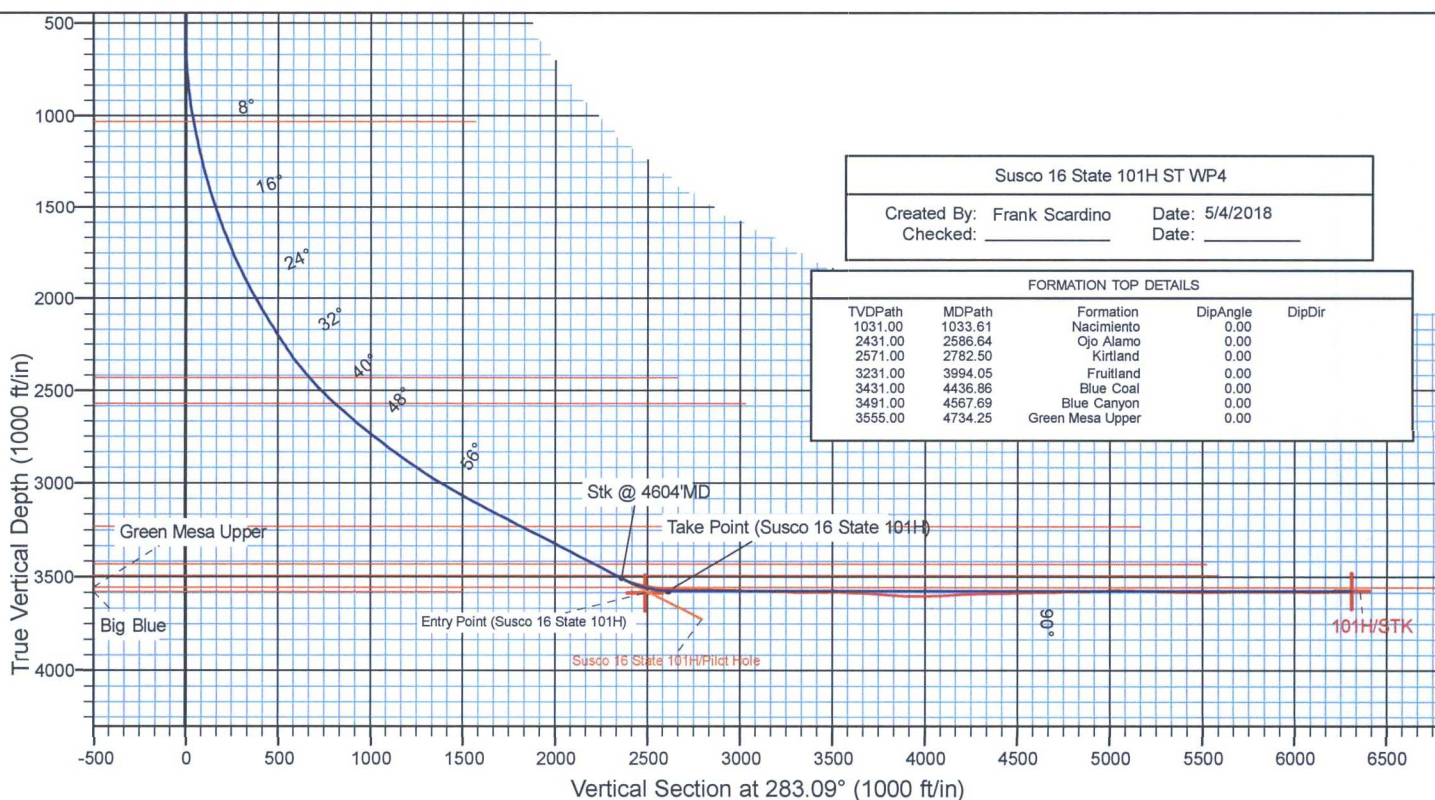
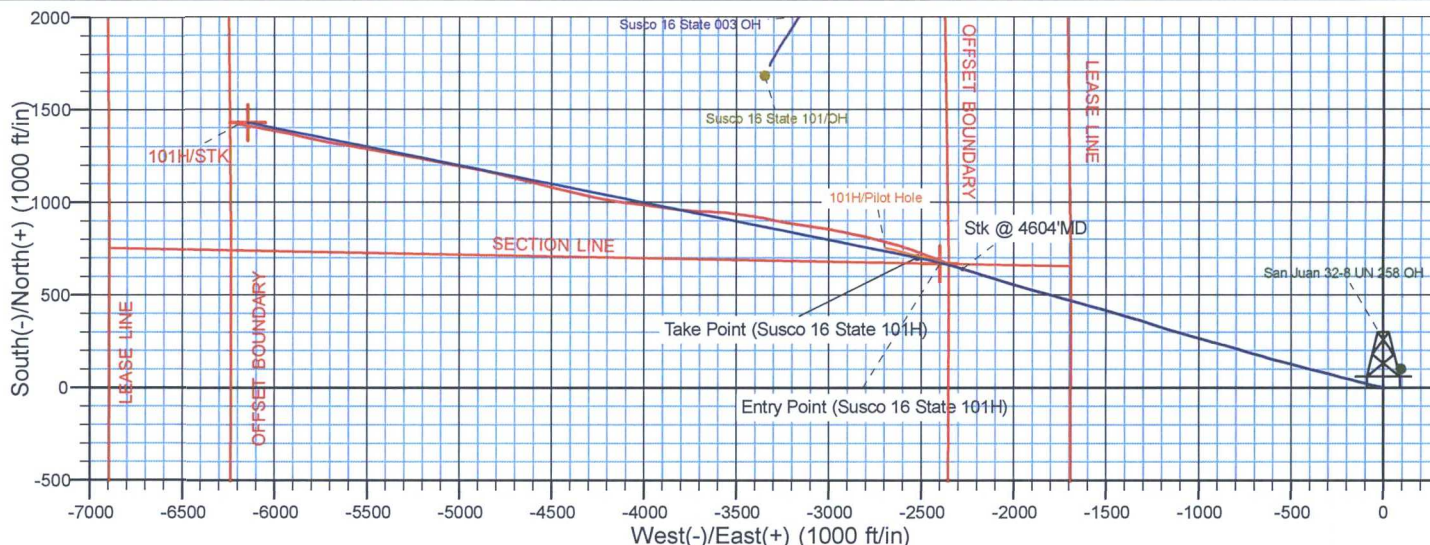
+N/-S	+E/-W	Northing	Ground Level: 6916.00	Easting	Latitude	Longitude	Slot
0.00	0.00	2176764.540	549137.360	36° 58' 55.245 N	107° 39' 54.371 W		

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL (Susco 16 State 101H ST)	3575.00	1428.63	-6144.14	2178193.165	542993.237	36° 59' 9.473 N	107° 41' 10.072 W	Point
Take Point (Susco 16 State 101H)	3575.00	702.30	-2521.17	2177466.839	546616.195	36° 59' 2.233 N	107° 40' 25.431 W	Point
Entry Point (Susco 16 State 101H)	3585.00	668.20	-2398.80	2177432.739	546738.565	36° 59' 1.893 N	107° 40' 23.923 W	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
4604.00	62.40	288.70	3507.77	640.01	-2275.22	0.00	0.00	2361.05	
4889.04	90.00	281.35	3575.15	705.67	-2541.27	9.85	-11.43	2635.06	
8563.72	90.00	281.35	3575.00	1428.63	-6144.14	0.00	0.00	6308.04	PBHL (Susco 16 State 101H ST)



Susco 16 State 101H ST WP4

Created By: Frank Scardino Date: 5/4/2018
 Checked: _____ Date: _____

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
1031.00	1033.61	Nacimiento	0.00	
2431.00	2586.64	Ojo Alamo	0.00	
2571.00	2782.50	Kirtland	0.00	
3231.00	3994.05	Fruitland	0.00	
3431.00	4436.86	Blue Coal	0.00	
3491.00	4567.69	Blue Canyon	0.00	
3555.00	4734.25	Green Mesa Upper	0.00	



Hilcorp Energy Company

San Juan County, NM

Susco 16 State 101H

Susco 16 State 101H

STK

Design: STK

Standard Survey Report

12 May, 2018





Survey Report



Company:	Hilcorp Energy Company	Local Co-ordinate Reference:	Well Susco 16 State 101H
Project:	San Juan County, NM	TVD Reference:	RKB @ 6931.00ft
Site:	Susco 16 State 101H	MD Reference:	RKB @ 6931.00ft
Well:	Susco 16 State 101H	North Reference:	Grid
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM 5000.1 Single User Db

Project	San Juan County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	Susco 16 State 101H		
Site Position:		Northing:	2,176,764.540 usft
From:	Map	Easting:	549,137.360 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	36° 58' 55.245 N
		Longitude:	107° 39' 54.371 W
		Grid Convergence:	0.10 °

Well	Susco 16 State 101H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	36° 58' 55.245 N
		Longitude:	107° 39' 54.371 W
		Ground Level:	6,916.00 ft

Wellbore	STK		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	4/26/2018	9.16
			Dip Angle (°)
			63.55
			Field Strength (nT)
			50,087

Design	STK		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	4,604.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°)
			283.09

Survey Program	Date 5/12/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
523.00	4,604.00	OH Pilot (Pilot Hole)	MWD
4,638.00	8,619.00	STK HORZ (STK)	MWD
			Description
			MWD - Standard
			MWD - Standard

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
523.00	0.00	0.00	523.00	0.00	0.00	0.00	0.00	0.00	0.00
544.00	0.90	88.20	544.00	0.01	0.16	-0.16	4.29	4.29	0.00
605.00	0.40	313.70	605.00	0.17	0.49	-0.44	1.99	-0.82	-220.49
666.00	2.10	288.80	665.98	0.67	-0.72	0.86	2.86	2.79	-40.82
729.00	3.80	283.80	728.89	1.54	-3.84	4.09	2.73	2.70	-7.94
792.00	5.30	286.30	791.69	2.86	-8.66	9.09	2.40	2.38	3.97
855.00	6.70	284.10	854.35	4.57	-15.02	15.67	2.25	2.22	-3.49
918.00	7.70	281.40	916.85	6.30	-22.72	23.56	1.68	1.59	-4.29
981.00	9.20	279.30	979.16	7.95	-31.83	32.80	2.43	2.38	-3.33



Survey Report



Company:	Hilcorp Energy Company	Local Co-ordinate Reference:	Well Susco 16 State 101H
Project:	San Juan County, NM	TVD Reference:	RKB @ 6931.00ft
Site:	Susco 16 State 101H	MD Reference:	RKB @ 6931.00ft
Well:	Susco 16 State 101H	North Reference:	Grid
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,044.00	10.70	280.60	1,041.22	9.84	-42.55	43.67	2.41	2.38	2.06
1,107.00	11.60	283.00	1,103.03	12.34	-54.47	55.85	1.61	1.43	3.81
1,169.00	12.60	284.40	1,163.65	15.42	-67.09	68.84	1.68	1.61	2.26
1,232.00	14.10	286.30	1,224.94	19.29	-81.12	83.38	2.48	2.38	3.02
1,295.00	14.20	284.20	1,286.03	23.34	-95.97	98.76	0.83	0.16	-3.33
1,358.00	15.40	284.60	1,346.94	27.34	-111.56	114.85	1.91	1.90	0.63
1,421.00	17.30	284.10	1,407.39	31.73	-128.74	132.58	3.02	3.02	-0.79
1,484.00	17.70	285.90	1,467.48	36.64	-147.04	151.51	1.07	0.63	2.86
1,547.00	18.40	284.90	1,527.38	41.82	-165.86	171.02	1.22	1.11	-1.59
1,609.00	19.80	284.20	1,585.96	46.91	-185.49	191.30	2.29	2.26	-1.13
1,672.00	21.80	283.40	1,644.85	52.24	-207.22	213.67	3.21	3.17	-1.27
1,735.00	22.40	283.60	1,703.22	57.77	-230.27	237.37	0.96	0.95	0.32
1,798.00	23.10	285.00	1,761.32	63.79	-253.87	261.72	1.40	1.11	2.22
1,861.00	24.90	284.60	1,818.87	70.34	-278.65	287.33	2.87	2.86	-0.63
1,924.00	27.00	284.10	1,875.52	77.16	-305.35	314.89	3.35	3.33	-0.79
1,987.00	27.90	284.00	1,931.42	84.21	-333.53	343.93	1.43	1.43	-0.16
2,049.00	29.30	283.90	1,985.86	91.37	-362.33	373.61	2.26	2.26	-0.16
2,112.00	30.60	284.30	2,040.44	99.03	-392.83	405.05	2.09	2.06	0.63
2,175.00	31.20	284.60	2,094.50	107.11	-424.16	437.40	0.98	0.95	0.48
2,238.00	32.40	284.50	2,148.04	115.45	-456.29	470.58	1.91	1.90	-0.16
2,301.00	32.70	285.00	2,201.15	124.08	-489.07	504.47	0.64	0.48	0.79
2,364.00	33.20	285.30	2,254.01	133.03	-522.15	538.71	0.83	0.79	0.48
2,426.00	34.50	285.10	2,305.50	142.09	-555.47	573.22	2.10	2.10	-0.32
2,489.00	38.60	284.90	2,356.10	151.79	-591.71	610.71	6.51	6.51	-0.32
2,550.00	40.30	284.90	2,403.20	161.76	-629.16	649.45	2.79	2.79	0.00
2,612.00	41.50	286.90	2,450.07	172.88	-668.20	689.99	2.86	1.94	3.23
2,673.00	44.20	285.70	2,494.79	184.52	-708.01	731.40	4.62	4.43	-1.97
2,734.00	46.10	286.30	2,537.81	196.44	-749.58	774.59	3.19	3.11	0.98
2,796.00	47.90	286.50	2,580.09	209.24	-793.08	819.86	2.91	2.90	0.32
2,857.00	48.30	286.60	2,620.83	222.18	-836.60	865.18	0.67	0.66	0.16
2,918.00	49.00	284.30	2,661.13	234.37	-880.73	910.92	3.05	1.15	-3.77
2,980.00	50.60	285.50	2,701.15	246.55	-926.49	958.25	2.97	2.58	1.94
3,041.00	52.20	285.90	2,739.20	259.45	-972.38	1,005.87	2.67	2.62	0.66
3,102.00	52.70	285.90	2,776.38	272.70	-1,018.89	1,054.18	0.82	0.82	0.00
3,163.00	53.40	286.30	2,813.05	286.22	-1,065.73	1,102.86	1.26	1.15	0.66
3,225.00	54.60	286.60	2,849.49	300.42	-1,113.83	1,152.93	1.97	1.94	0.48
3,286.00	55.30	286.40	2,884.52	314.61	-1,161.71	1,202.78	1.18	1.15	-0.33
3,347.00	56.40	287.30	2,918.76	329.24	-1,210.03	1,253.15	2.18	1.80	1.48
3,409.00	57.60	288.00	2,952.53	345.01	-1,259.57	1,304.98	2.15	1.94	1.13
3,471.00	58.60	287.40	2,985.29	361.01	-1,309.72	1,357.45	1.81	1.61	-0.97
3,534.00	59.80	286.20	3,017.55	376.65	-1,361.52	1,411.45	2.51	1.90	-1.90
3,597.00	60.60	286.20	3,048.86	391.90	-1,414.02	1,466.03	1.27	1.27	0.00
3,660.00	61.40	285.70	3,079.40	407.04	-1,467.00	1,521.07	1.45	1.27	-0.79



Survey Report



Company:	Hilcorp Energy Company	Local Co-ordinate Reference:	Well Susco 16 State 101H
Project:	San Juan County, NM	TVD Reference:	RKB @ 6931.00ft
Site:	Susco 16 State 101H	MD Reference:	RKB @ 6931.00ft
Well:	Susco 16 State 101H	North Reference:	Grid
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,723.00	62.40	285.90	3,109.08	422.17	-1,520.47	1,576.58	1.61	1.59	0.32
3,786.00	63.60	285.60	3,137.68	437.41	-1,574.50	1,632.65	1.95	1.90	-0.48
3,849.00	63.10	285.20	3,165.94	452.36	-1,628.78	1,688.91	0.98	-0.79	-0.63
3,912.00	63.50	285.70	3,194.24	467.35	-1,683.03	1,745.14	0.95	0.63	0.79
3,975.00	63.30	285.40	3,222.45	482.46	-1,737.30	1,801.42	0.53	-0.32	-0.48
4,037.00	63.60	285.80	3,250.17	497.37	-1,790.72	1,856.83	0.75	0.48	0.65
4,100.00	63.20	284.80	3,278.37	512.24	-1,845.05	1,913.12	1.55	-0.63	-1.59
4,163.00	63.10	286.10	3,306.83	527.21	-1,899.23	1,969.28	1.85	-0.16	2.06
4,226.00	63.00	286.30	3,335.38	542.88	-1,953.16	2,025.36	0.32	-0.16	0.32
4,289.00	62.90	286.40	3,364.03	558.67	-2,007.00	2,081.37	0.21	-0.16	0.16
4,352.00	63.00	286.50	3,392.68	574.56	-2,060.81	2,137.39	0.21	0.16	0.16
4,415.00	63.30	287.50	3,421.14	590.99	-2,114.56	2,193.46	1.49	0.48	1.59
4,478.00	62.60	286.90	3,449.79	607.59	-2,168.16	2,249.42	1.40	-1.11	-0.95
4,541.00	62.70	286.90	3,478.73	623.85	-2,221.70	2,305.26	0.16	0.16	0.00
4,604.00	62.40	286.70	3,507.77	640.01	-2,275.22	2,361.05	0.55	-0.48	-0.32
Stk @ 4604'MD									
4,638.00	69.73	291.00	3,521.56	650.07	-2,304.59	2,391.93	24.46	21.56	12.65
4,669.00	72.66	291.77	3,531.56	660.77	-2,331.91	2,420.97	9.74	9.45	2.48
4,701.00	76.12	292.60	3,540.16	672.41	-2,360.44	2,451.40	11.10	10.81	2.59
4,732.00	77.63	291.45	3,547.20	683.73	-2,388.43	2,481.22	6.06	4.87	-3.71
4,764.00	80.94	290.97	3,553.15	695.11	-2,417.74	2,512.34	10.45	10.34	-1.50
4,795.00	82.66	290.02	3,557.57	705.85	-2,446.48	2,542.77	6.32	5.55	-3.06
4,826.00	84.29	290.59	3,561.10	716.54	-2,475.36	2,573.32	5.57	5.26	1.84
4,858.00	85.77	290.17	3,563.87	727.64	-2,505.24	2,604.94	4.81	4.63	-1.31
4,889.00	87.28	288.99	3,565.75	738.01	-2,534.40	2,635.68	6.18	4.87	-3.81
4,921.00	88.16	288.42	3,567.02	748.26	-2,564.68	2,667.51	3.28	2.75	-1.78
4,983.00	89.73	286.81	3,568.16	767.02	-2,623.76	2,729.30	3.63	2.53	-2.60
5,046.00	90.27	285.08	3,568.16	784.32	-2,684.33	2,792.22	2.88	0.86	-2.75
5,109.00	89.16	283.41	3,568.48	799.83	-2,745.39	2,855.20	3.18	-1.76	-2.65
5,172.00	87.75	282.99	3,570.17	814.21	-2,806.70	2,918.17	2.34	-2.24	-0.67
5,235.00	87.12	282.16	3,572.99	827.91	-2,868.13	2,981.11	1.65	-1.00	-1.32
5,297.00	87.65	281.84	3,575.82	840.78	-2,928.71	3,043.03	1.00	0.85	-0.52
5,360.00	89.87	279.80	3,577.19	852.61	-2,990.57	3,105.96	4.79	3.52	-3.24
5,423.00	88.82	278.08	3,577.91	862.40	-3,052.80	3,168.79	3.20	-1.67	-2.73
5,486.00	87.75	278.23	3,579.79	871.33	-3,115.13	3,231.53	1.72	-1.70	0.24
5,549.00	86.91	279.22	3,582.73	880.87	-3,177.33	3,294.27	2.06	-1.33	1.57
5,612.00	89.63	280.62	3,584.63	891.72	-3,239.36	3,357.14	4.86	4.32	2.22
5,674.00	92.32	281.50	3,583.57	903.61	-3,300.19	3,419.09	4.56	4.34	1.42
5,737.00	91.01	281.47	3,581.74	916.15	-3,361.90	3,482.03	2.08	-2.08	-0.05
5,800.00	87.11	276.83	3,582.78	926.16	-3,424.06	3,544.85	9.62	-6.19	-7.37
5,863.00	87.72	277.98	3,585.62	934.28	-3,486.47	3,607.47	2.06	0.97	1.83
5,926.00	87.96	276.65	3,587.99	942.29	-3,548.91	3,670.11	2.14	0.38	-2.11
5,989.00	86.48	273.47	3,591.05	947.84	-3,611.58	3,732.41	5.56	-2.35	-5.05



Survey Report



Company:	Hilcorp Energy Company	Local Co-ordinate Reference:	Well Susco 16 State 101H
Project:	San Juan County, NM	TVD Reference:	RKB @ 6931.00ft
Site:	Susco 16 State 101H	MD Reference:	RKB @ 6931.00ft
Well:	Susco 16 State 101H	North Reference:	Grid
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,050.00	85.66	270.75	3,595.23	950.08	-3,672.39	3,792.14	4.65	-1.34	-4.46	
6,111.00	86.11	273.86	3,599.61	952.53	-3,733.18	3,851.90	5.14	0.74	5.10	
6,173.00	88.39	276.15	3,602.58	957.93	-3,794.86	3,913.21	5.21	3.68	3.69	
6,234.00	91.04	278.69	3,602.89	965.81	-3,855.34	3,973.90	6.02	4.34	4.16	
6,295.00	91.78	277.93	3,601.39	974.62	-3,915.68	4,034.67	1.74	1.21	-1.25	
6,357.00	92.55	276.78	3,599.04	982.55	-3,977.13	4,096.31	2.23	1.24	-1.85	
6,418.00	93.52	277.04	3,595.81	989.88	-4,037.60	4,156.87	1.65	1.59	0.43	
6,479.00	91.61	277.71	3,593.08	997.71	-4,098.03	4,217.50	3.32	-3.13	1.10	
6,540.00	91.75	278.26	3,591.30	1,006.18	-4,158.41	4,278.24	0.93	0.23	0.90	
6,602.00	90.67	281.24	3,589.99	1,016.67	-4,219.49	4,340.11	5.11	-1.74	4.81	
6,663.00	91.31	281.74	3,588.93	1,028.82	-4,279.26	4,401.08	1.33	1.05	0.82	
6,724.00	90.97	282.65	3,587.72	1,041.70	-4,338.87	4,462.06	1.59	-0.56	1.49	
6,786.00	92.18	282.92	3,586.02	1,055.42	-4,399.31	4,524.03	2.00	1.95	0.44	
6,847.00	90.71	283.90	3,584.48	1,069.56	-4,458.63	4,585.01	2.90	-2.41	1.61	
6,908.00	91.21	284.35	3,583.46	1,084.44	-4,517.77	4,645.99	1.10	0.82	0.74	
6,969.00	91.54	283.67	3,581.99	1,099.21	-4,576.94	4,706.96	1.24	0.54	-1.11	
7,031.00	92.35	283.57	3,579.89	1,113.80	-4,637.16	4,768.92	1.32	1.31	-0.16	
7,092.00	90.47	284.47	3,578.39	1,128.57	-4,696.33	4,829.89	3.42	-3.08	1.48	
7,153.00	91.81	283.94	3,577.17	1,143.54	-4,755.45	4,890.87	2.36	2.20	-0.87	
7,215.00	92.69	283.31	3,574.74	1,158.13	-4,815.65	4,952.82	1.75	1.42	-1.02	
7,276.00	90.97	281.25	3,572.79	1,171.10	-4,875.22	5,013.77	4.40	-2.82	-3.38	
7,337.00	88.49	279.85	3,573.08	1,182.26	-4,935.19	5,074.71	4.67	-4.07	-2.30	
7,398.00	89.80	280.03	3,573.99	1,192.79	-4,995.26	5,135.61	2.17	2.15	0.30	
7,460.00	88.29	281.37	3,575.02	1,204.30	-5,056.17	5,197.54	3.26	-2.44	2.16	
7,521.00	87.14	281.21	3,577.45	1,216.23	-5,115.94	5,258.46	1.90	-1.89	-0.26	
7,582.00	88.83	281.35	3,579.60	1,228.16	-5,175.73	5,319.39	2.78	2.77	0.23	
7,644.00	88.29	279.33	3,581.16	1,239.28	-5,236.70	5,381.30	3.37	-0.87	-3.26	
7,705.00	89.46	280.02	3,582.35	1,249.53	-5,296.82	5,442.18	2.23	1.92	1.13	
7,766.00	90.13	280.19	3,582.57	1,260.23	-5,356.87	5,503.09	1.13	1.10	0.28	
7,827.00	90.87	280.36	3,582.04	1,271.11	-5,416.89	5,564.02	1.24	1.21	0.28	
7,889.00	91.98	279.74	3,580.50	1,281.93	-5,477.92	5,625.91	2.05	1.79	-1.00	
7,950.00	89.97	281.00	3,579.46	1,292.91	-5,537.91	5,686.83	3.89	-3.30	2.07	
8,011.00	89.19	278.98	3,579.91	1,303.49	-5,597.98	5,747.73	3.55	-1.28	-3.31	
8,072.00	89.16	279.36	3,580.79	1,313.21	-5,658.19	5,808.58	0.62	-0.05	0.62	
8,134.00	90.94	282.28	3,580.73	1,324.85	-5,719.08	5,870.52	5.52	2.87	4.71	
8,196.00	91.18	282.09	3,579.58	1,337.93	-5,779.67	5,932.51	0.49	0.39	-0.31	
8,259.00	88.46	282.43	3,579.78	1,351.31	-5,841.23	5,995.49	4.35	-4.32	0.54	
8,322.00	89.53	282.42	3,580.89	1,364.86	-5,902.74	6,058.48	1.70	1.70	-0.02	
8,385.00	90.00	281.16	3,581.15	1,377.73	-5,964.41	6,121.46	2.13	0.75	-2.00	
8,448.00	90.84	280.80	3,580.68	1,389.73	-6,026.26	6,184.42	1.45	1.33	-0.57	
8,511.00	92.05	280.10	3,579.10	1,401.15	-6,088.19	6,247.33	2.22	1.92	-1.11	
8,551.00	92.78	280.47	3,577.41	1,408.29	-6,127.51	6,287.24	2.05	1.83	0.93	
8,619.00	92.78	280.47	3,574.11	1,420.63	-6,194.30	6,355.09	0.00	0.00	0.00	
Proj TD @ 8619'MD										



Survey Report



Company:	Hilcorp Energy Company	Local Co-ordinate Reference:	Well Susco 16 State 101H
Project:	San Juan County, NM	TVD Reference:	RKB @ 6931.00ft
Site:	Susco 16 State 101H	MD Reference:	RKB @ 6931.00ft
Well:	Susco 16 State 101H	North Reference:	Grid
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,604.00	3,507.77	640.01	-2,275.22	Stk @ 4604'MD
8,619.00	3,574.11	1,420.63	-6,194.30	Proj TD @ 8619'MD

Checked By: _____	Approved By: _____	Date: _____
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