

District I
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Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 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, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-44914		2 Pool Code 96718		3 Pool Name Loco Hills, Glorieta-Yeso	
4 Property Code 302499 328601		5 Property Name GISSLER FEDERAL			6 Well Number 17H
7 OGRID NO. 328947		8 Operator Name Svr Energy Partners LLC			9 Elevation 3689'
10 Surface Location					
UL or lot no. P	Section 6	Township 17S	Range 30E	Lot Idn 990	Feet from the 990
				North/South line SOUTH	Feet From the 170
					East/West line EAST
					County EDDY
11 Bottom Hole Location If Different From Surface					
UL or lot no. P	Section 5	Township 17S	Range 30E	Lot Idn 993	Feet from the 993
				North/South line SOUTH	Feet From the 31
					East/West line EAST
					County EDDY
12 Dedicated Acres 160		13 Joint or Infill		14 Consolidation Code	
				15 Order No.	

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16 GROUND DATA MAD 83 GRID - NM EAST SURFACE LOCATION (SL) 990'-FSL/170'-FEL (SEC. 8) N 678408.6 - E 642674.8 LAT: 32.8590349° N LONG: 104.0033131° W LOT 32.51°32.5233° N LONG: 104.00°11.9289° W KICK OFF POINT (KOP) 1000'-FSL/171'-FEL (SEC. 8) N 678410.2 - E 642673.6 LAT: 32.8590812° N LONG: 104.0033189° W LOT 32.51°39.6203° N LONG: 104.00°11.9410° W MD = 3,801.00 / TWO = 3,800.44 FIRST TAKE POINT (FTP) 948'-FSL/473'-FEL (SEC. 5) N 678369.8 - E 643318.0 LAT: 32.8589222° N LONG: 104.00°12.188° W LOT 32.51°32.1198° N LONG: 104.00°04.3878° W MD = 4,809.00 / TWO = 4,808.14 LAST TAKE POINT (LTP) 975'-FSL/136'-FEL (SEC. 5) N 678411.1 - E 647990.0 LAT: 32.8608577° N LONG: 103.8863265° W LOT 32.51°32.3814° N LONG: 103.59°08.6127° W MD = 8,495.00 / TWO = 4,247.50 BOTTOM HOLE (BH) 993'-FSL/31'-FEL (SEC. 5) N 678428.5 - E 648084.5 LAT: 32.8590417° N LONG: 103.9856630° W LOT 32.51°32.5501° N LONG: 103.59°08.3689° W MD = 8,801.00 / TWO = 4,400.50		CORNER DATA MAD 83 GRID - NM EAST A: FOUND BRASS CAP "1914" N 675387.8 - E 637853.8 B: FOUND BRASS CAP "1914" N 678025.5 - E 637853.4 C: FOUND BRASS CAP "1914" N 680685.9 - E 637854.6 D: FOUND BRASS CAP "1916" N 680873.4 - E 640190.1 E: FOUND BRASS CAP "1916" N 680680.6 - E 642829.7 F: FOUND BRASS CAP "1916" N 680688.3 - E 645470.0 G: FOUND BRASS CAP "1916" N 680688.5 - E 648110.9		H: FOUND BRASS CAP "1916" N 678078.6 - E 648121.2 I: FOUND BRASS CAP "1916" N 675436.4 - E 648128.9 J: FOUND BRASS CAP "1916" N 675428.2 - E 645488.7 K: FOUND BRASS CAP "1916" N 675419.9 - E 642848.2 L: FOUND BRASS CAP "1916" N 675403.7 - E 640208.3 M: CALCULATED CORNER N 678059.3 - E 642838.9		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. Signature: <u>Juan Chaparron</u> 3/12/2020 Date: <u>3/12/2020</u> Printed Name: <u>Juan Chaparron</u> E-mail Address: <u>chaparron@svr-epi-llc.com</u>	
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. 8-30-2017 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number 12/10/18 AS DRILL		19 DETAIL "A" 3689.8' 600' 3688.2' 3688.3' 600' 3689.5' O.S.L. LOT 4 38.82 AC. LOT 3 38.78 AC. LOT 2 39.63 AC. LOT 1 39.48 AC. LOT 5 37.03 AC. LOT 6 37.17 AC. LOT 7 37.31 AC. SEE DETAIL "A" KOP FTP BH LTP					

Job No.: LS170855202

Intent ☐ As Drilled ☒

API # 30-015-44914			
Operator Name: SPUR ENERGY PARTNERS, LLC		Property Name: GISSLER FEDERAL	Well Number 17H

Kick Off Point (KOP)

UL P	Section 6	Township 17S	Range 30E	Lot	Feet 1000	From N/S SOUTH	Feet 171	From E/W EAST	County EDDY
Latitude 32.8590612					Longitude -104.0033169			NAD NAD83	

First Take Point (FTP)

UL M	Section 5	Township 17S	Range 30E	Lot	Feet 948	From N/S SOUTH	Feet 473	From E/W WEST	County EDDY
Latitude 32.8589222					Longitude -104.0012188			NAD NAD83	

Last Take Point (LTP)

UL P	Section 5	Township 17S	Range 30E	Lot	Feet 975	From N/S SOUTH	Feet 136	From E/W EAST	County EDDY
Latitude 32.8608577					Longitude -103.9863265			NAD NAD83	

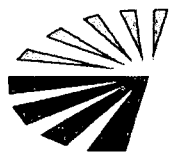
Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #			
Operator Name:		Property Name:	Well Number

KZ 06/29/2018



C O N C H O

RECEIVED

FEB 19 2020

EMNRD-OCDARTESIA

NEW MEXICO SHELF

EDDY COUNTY, NM

LOCO HILLS

GISSLER FED #17H

OWB

Design: ACTUAL WELLPATH

*A Certified Directional Survey
requested as required by NMOCD
Rule 19.15.16.14 NMAC*

Standard Survey Report

03 October, 2018



Survey Report

Company:	NEW MEXICO SHELF	Local Co-ordinate Reference:	Well GISSLER FED #17H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Site:	LOCO HILLS	MD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Well:	GISSLER FED #17H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Project	EDDY 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 East 3001		

Site		LOCO HILLS			
Site Position:		Northing:	674,351.30 usft	Latitude:	32° 51' 12.377 N
From:	Map	Easting:	601,657.80 usft	Longitude:	104° 0' 8.270 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.18 °

Well	GISSLER FED #17H					
Well Position	+N/-S	0.0 usft	Northing:	676,345.00 usft	Latitude:	32° 51' 32.110 N
	+E/-W	0.0 usft	Easting:	601,495.80 usft	Longitude:	104° 0' 10.096 W
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,689.0 usft	

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM2015	8/13/2018	7.10	60.54	48,132.48821575

Design		ACTUAL WELLPATH			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	89.82	

Survey Program		Date	10/3/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	1,109.0	GYRO (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
1,310.0	9,601.0	MWD-INTER/CURVE/LATERAL (OWB)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.29	147.95	100.0	-0.2	0.1	0.1	0.29	0.29	0.00
125.0	0.40	146.32	125.0	-0.3	0.2	0.2	0.44	0.44	-6.52
150.0	0.40	122.94	150.0	-0.5	0.3	0.3	0.65	0.00	-93.52
175.0	0.34	137.62	175.0	-0.6	0.5	0.5	0.45	-0.24	58.72
200.0	0.30	160.60	200.0	-0.7	0.5	0.5	0.53	-0.16	91.92
225.0	0.35	149.78	225.0	-0.8	0.6	0.6	0.32	0.20	-43.28
250.0	0.28	135.40	250.0	-0.9	0.7	0.7	0.42	-0.28	-57.52
275.0	0.31	141.96	275.0	-1.0	0.8	0.8	0.18	0.12	26.24
300.0	0.40	158.72	300.0	-1.1	0.8	0.8	0.55	0.36	67.04



Survey Report

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Site:	LOCO HILLS	MD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Well:	GISSLER FED #17H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
325.0	0.36	160.43	325.0	-1.3	0.9	0.9	0.17	-0.16	6.84
350.0	0.51	173.54	350.0	-1.5	0.9	0.9	0.72	0.60	52.44
375.0	0.56	195.49	375.0	-1.7	0.9	0.9	0.84	0.20	87.80
400.0	0.66	200.17	400.0	-2.0	0.8	0.8	0.45	0.40	18.72
425.0	0.78	207.66	425.0	-2.3	0.7	0.7	0.61	0.48	29.96
450.0	0.82	220.72	450.0	-2.5	0.5	0.5	0.74	0.16	52.24
475.0	0.92	222.22	475.0	-2.8	0.3	0.2	0.41	0.40	6.00
500.0	0.92	228.90	500.0	-3.1	0.0	0.0	0.43	0.00	26.72
525.0	0.92	228.89	525.0	-3.4	-0.3	-0.3	0.00	0.00	-0.04
550.0	0.85	229.90	550.0	-3.6	-0.6	-0.6	0.29	-0.28	4.04
575.0	0.83	234.77	575.0	-3.8	-0.9	-0.9	0.30	-0.08	19.48
600.0	0.82	238.54	600.0	-4.0	-1.2	-1.2	0.22	-0.04	15.08
625.0	0.68	235.63	625.0	-4.2	-1.5	-1.5	0.58	-0.56	-11.64
650.0	0.67	230.62	650.0	-4.4	-1.7	-1.7	0.24	-0.04	-20.04
675.0	0.65	232.61	675.0	-4.6	-2.0	-2.0	0.12	-0.08	7.96
700.0	0.64	235.48	700.0	-4.7	-2.2	-2.2	0.14	-0.04	11.48
725.0	0.63	234.97	725.0	-4.9	-2.4	-2.4	0.05	-0.04	-2.04
750.0	0.65	239.15	750.0	-5.1	-2.6	-2.7	0.20	0.08	16.72
775.0	0.47	238.00	775.0	-5.2	-2.9	-2.9	0.72	-0.72	-4.60
800.0	0.48	240.03	800.0	-5.3	-3.0	-3.1	0.08	0.04	8.12
825.0	0.45	240.41	825.0	-5.4	-3.2	-3.2	0.12	-0.12	1.52
850.0	0.35	234.13	850.0	-5.5	-3.4	-3.4	0.44	-0.40	-25.12
875.0	0.21	234.50	875.0	-5.5	-3.5	-3.5	0.56	-0.56	1.48
900.0	0.16	234.38	900.0	-5.6	-3.5	-3.5	0.20	-0.20	-0.48
925.0	0.06	175.75	925.0	-5.6	-3.5	-3.6	0.55	-0.40	-234.52
950.0	0.13	96.75	950.0	-5.6	-3.5	-3.5	0.53	0.28	-316.00
975.0	0.27	79.10	975.0	-5.6	-3.4	-3.5	0.61	0.56	-70.60
1,000.0	0.53	81.85	1,000.0	-5.6	-3.3	-3.3	1.04	1.04	11.00
1,025.0	0.52	80.68	1,025.0	-5.6	-3.0	-3.1	0.06	-0.04	-4.68
1,050.0	0.49	102.15	1,050.0	-5.6	-2.8	-2.8	0.76	-0.12	85.88
1,075.0	0.70	91.11	1,075.0	-5.6	-2.6	-2.6	0.95	0.84	-44.16
1,100.0	0.79	104.11	1,099.9	-5.7	-2.2	-2.3	0.76	0.36	52.00
1,109.0	0.90	95.14	1,108.9	-5.7	-2.1	-2.1	1.91	1.22	-99.67
1,310.0	1.05	111.69	1,309.9	-6.5	1.2	1.2	0.16	0.07	8.23
1,373.0	0.84	84.84	1,372.9	-6.7	2.2	2.1	0.77	-0.33	-42.62
1,436.0	0.96	90.79	1,435.9	-6.6	3.2	3.1	0.24	0.19	9.44
1,499.0	1.23	72.66	1,498.9	-6.4	4.3	4.3	0.69	0.43	-28.78
1,562.0	0.89	56.07	1,561.9	-6.0	5.4	5.4	0.72	-0.54	-26.33
1,626.0	0.72	61.61	1,625.9	-5.5	6.1	6.1	0.29	-0.27	8.66
1,688.0	0.63	50.94	1,687.9	-5.1	6.8	6.7	0.25	-0.15	-17.21
1,752.0	0.72	47.01	1,751.9	-4.6	7.3	7.3	0.16	0.14	-6.14
1,815.0	0.77	46.68	1,814.9	-4.0	7.9	7.9	0.08	0.08	-0.52
1,879.0	0.53	46.06	1,878.9	-3.5	8.4	8.4	0.38	-0.38	-0.97

Company:	NEW MEXICO SHELF	Local Co-ordinate Reference:	Well GISSLER FED #17H
Project:	EDDY COUNTY, NM	TYD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Site:	LOCO HILLS	MD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Well:	GISSLER FED #17H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,942.0	0.53	30.17	1,941.9	-3.1	8.8	8.8	0.23	0.00	-25.22
2,005.0	0.68	30.31	2,004.9	-2.5	9.1	9.1	0.24	0.24	0.22
2,067.0	0.91	27.66	2,066.8	-1.8	9.6	9.5	0.38	0.37	-4.27
2,131.0	0.90	37.88	2,130.8	-0.9	10.1	10.1	0.25	-0.02	15.97
2,194.0	1.16	15.76	2,193.8	0.1	10.6	10.6	0.75	0.41	-35.11
2,258.0	1.13	17.46	2,257.8	1.3	10.9	10.9	0.07	-0.05	2.66
2,321.0	1.13	4.11	2,320.8	2.5	11.2	11.2	0.42	0.00	-21.19
2,384.0	0.96	355.16	2,383.8	3.7	11.2	11.2	0.37	-0.27	-14.21
2,447.0	0.99	4.56	2,446.8	4.7	11.2	11.2	0.26	0.05	14.92
2,508.0	0.97	351.84	2,507.8	5.8	11.1	11.2	0.36	-0.03	-20.85
2,571.0	1.36	325.62	2,570.8	6.9	10.6	10.7	1.03	0.62	-41.62
2,634.0	1.46	305.31	2,633.7	8.0	9.6	9.6	0.80	0.16	-32.24
2,697.0	1.60	311.45	2,696.7	9.1	8.2	8.3	0.34	0.22	9.75
2,760.0	1.32	308.24	2,759.7	10.1	7.0	7.1	0.46	-0.44	-5.10
2,822.0	1.46	311.20	2,821.7	11.0	5.9	5.9	0.25	0.23	4.77
2,885.0	1.41	306.07	2,884.7	12.0	4.6	4.7	0.22	-0.08	-8.14
2,948.0	1.49	308.97	2,947.6	13.0	3.4	3.4	0.17	0.13	4.60
3,011.0	1.72	299.08	3,010.6	14.0	1.9	2.0	0.57	0.37	-15.70
3,074.0	1.48	305.77	3,073.6	14.9	0.4	0.5	0.48	-0.38	10.62
3,137.0	1.80	301.61	3,136.6	15.9	-1.1	-1.0	0.54	0.51	-6.60
3,201.0	0.98	292.44	3,200.5	16.6	-2.4	-2.4	1.32	-1.28	-14.33
3,264.0	0.21	317.71	3,263.5	16.9	-3.0	-3.0	1.26	-1.22	40.11
3,327.0	0.10	153.10	3,326.5	17.0	-3.1	-3.0	0.49	-0.17	-261.29
3,390.0	0.06	308.95	3,389.5	16.9	-3.1	-3.0	0.25	-0.06	247.38
3,454.0	0.32	72.04	3,453.5	17.0	-2.9	-2.9	0.56	0.41	192.33
3,517.0	0.77	178.15	3,516.5	16.7	-2.7	-2.7	1.45	0.71	168.43
3,580.0	1.49	173.44	3,579.5	15.4	-2.6	-2.6	1.15	1.14	-7.48
3,643.0	1.69	168.77	3,642.5	13.7	-2.4	-2.3	0.38	0.32	-7.41
3,707.0	1.49	165.66	3,706.5	12.0	-2.0	-1.9	0.34	-0.31	-4.86
3,770.0	1.50	166.88	3,769.5	10.4	-1.6	-1.6	0.05	0.02	1.94
3,801.0	1.83	146.40	3,800.4	9.6	-1.2	-1.2	2.18	1.06	-66.06
3,833.0	4.10	108.22	3,832.4	8.8	0.1	0.2	9.04	7.09	-119.31
3,864.0	7.47	100.80	3,863.2	8.0	3.2	3.2	11.11	10.87	-23.94
3,896.0	11.16	96.90	3,894.8	7.3	8.3	8.3	11.69	11.53	-12.19
3,959.0	19.02	98.46	3,955.6	5.0	24.5	24.5	12.49	12.48	2.48
4,022.0	27.33	98.81	4,013.5	1.3	49.0	49.0	13.19	13.19	0.56
4,052.0	31.32	100.15	4,039.6	-1.1	63.5	63.5	13.48	13.30	4.47
4,084.0	33.60	101.48	4,066.6	-4.4	80.4	80.4	7.47	7.13	4.16
4,115.0	36.01	101.34	4,092.1	-7.9	97.7	97.7	7.78	7.77	-0.45
4,147.0	38.67	100.94	4,117.5	-11.6	116.8	116.7	8.35	8.31	-1.25
4,178.0	42.07	101.00	4,141.1	-15.4	136.5	136.4	10.97	10.97	0.19
4,210.0	45.34	99.68	4,164.2	-19.4	158.2	158.2	10.61	10.22	-4.13
4,273.0	45.99	98.34	4,208.3	-26.4	202.7	202.6	1.84	1.03	-2.13



Survey Report

Company:	NEW MEXICO SHELF	Local Co-ordinate Reference:	Well GISSLER FED #17H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Site:	LOCO HILLS	MD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Well:	GISSLER FED #17H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,336.0	45.81	97.72	4,252.1	-32.8	247.5	247.4	0.76	-0.29	-0.98
4,368.0	45.89	97.35	4,274.4	-35.8	270.3	270.2	0.87	0.25	-1.16
4,399.0	45.83	96.73	4,296.0	-38.5	292.4	292.2	1.45	-0.19	-2.00
4,431.0	45.88	96.18	4,318.3	-41.1	315.2	315.0	1.24	0.16	-1.72
4,463.0	46.60	95.68	4,340.4	-43.5	338.2	338.0	2.52	2.25	-1.56
4,494.0	50.24	93.60	4,361.0	-45.3	361.3	361.1	12.77	11.74	-6.71
4,526.0	54.12	91.47	4,380.6	-46.4	386.5	386.4	13.21	12.13	-6.66
4,557.0	56.78	90.41	4,398.2	-46.8	412.0	411.9	9.03	8.58	-3.42
4,589.0	59.38	88.65	4,415.1	-46.6	439.2	439.1	9.37	8.13	-5.50
4,621.0	63.02	87.77	4,430.5	-45.7	467.2	467.1	11.63	11.38	-2.75
4,652.0	66.14	86.91	4,443.8	-44.4	495.2	495.0	10.37	10.06	-2.77
4,683.0	68.14	86.43	4,455.9	-42.8	523.7	523.6	6.61	6.45	-1.55
4,715.0	69.66	86.85	4,467.4	-41.0	553.5	553.4	4.91	4.75	1.31
4,747.0	71.45	87.87	4,478.0	-39.6	583.6	583.5	6.35	5.59	3.19
4,778.0	73.90	89.53	4,487.3	-39.0	613.2	613.1	9.41	7.90	5.35
4,809.0	76.68	90.66	4,495.1	-39.0	643.2	643.1	9.64	8.97	3.65
4,841.0	80.18	91.16	4,501.6	-39.5	674.6	674.4	11.04	10.94	1.56
4,873.0	83.81	91.45	4,506.0	-40.2	706.2	706.1	11.38	11.34	0.91
4,904.0	86.44	91.48	4,508.6	-41.0	737.1	737.0	8.48	8.48	0.10
4,936.0	88.15	91.55	4,510.2	-41.9	769.1	768.9	5.35	5.34	0.22
4,967.0	88.30	91.56	4,511.1	-42.7	800.0	799.9	0.48	0.48	0.03
5,030.0	88.45	91.02	4,512.9	-44.1	863.0	862.8	0.89	0.24	-0.86
5,093.0	88.36	90.76	4,514.7	-45.1	926.0	925.8	0.44	-0.14	-0.41
5,154.0	88.42	90.23	4,516.4	-45.6	986.9	986.8	0.87	0.10	-0.87
5,217.0	88.53	89.91	4,518.0	-45.7	1,049.9	1,049.8	0.54	0.17	-0.51
5,281.0	88.62	89.61	4,519.6	-45.4	1,113.9	1,113.7	0.49	0.14	-0.47
5,345.0	88.52	89.77	4,521.2	-45.1	1,177.9	1,177.7	0.29	-0.16	0.25
5,408.0	88.61	89.14	4,522.8	-44.5	1,240.8	1,240.7	1.01	0.14	-1.00
5,472.0	89.02	89.99	4,524.1	-44.0	1,304.8	1,304.7	1.47	0.64	1.33
5,535.0	89.18	91.06	4,525.1	-44.6	1,367.8	1,367.7	1.72	0.25	1.70
5,598.0	89.18	90.97	4,526.0	-45.7	1,430.8	1,430.6	0.14	0.00	-0.14
5,661.0	89.70	90.98	4,526.6	-46.8	1,493.8	1,493.6	0.83	0.83	0.02
5,723.0	89.78	90.93	4,526.9	-47.8	1,555.8	1,555.6	0.15	0.13	-0.08
5,786.0	90.15	91.00	4,527.0	-48.9	1,618.8	1,618.6	0.60	0.59	0.11
5,848.0	90.12	92.28	4,526.8	-50.6	1,680.7	1,680.6	2.07	-0.05	2.06
5,911.0	90.22	92.14	4,526.6	-53.1	1,743.7	1,743.5	0.27	0.16	-0.22
5,972.0	90.27	92.16	4,526.4	-55.4	1,804.6	1,804.5	0.09	0.08	0.03
6,034.0	90.48	91.92	4,526.0	-57.6	1,866.6	1,866.4	0.51	0.34	-0.39
6,095.0	90.96	92.26	4,525.2	-59.8	1,927.6	1,927.4	0.96	0.79	0.56
6,157.0	90.61	93.44	4,524.3	-62.9	1,989.5	1,989.3	1.99	-0.56	1.90
6,218.0	88.76	93.58	4,524.7	-66.6	2,050.4	2,050.1	3.04	-3.03	0.23
6,279.0	88.55	93.11	4,526.1	-70.2	2,111.2	2,111.0	0.84	-0.34	-0.77
6,341.0	88.72	93.10	4,527.6	-73.5	2,173.1	2,172.9	0.27	0.27	-0.02
6,402.0	88.67	92.42	4,529.0	-76.5	2,234.0	2,233.8	1.12	-0.08	-1.11



Survey Report

Company:	NEW MEXICO SHELF	Local Co-ordinate Reference:	Well GISSLER FED #17H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Site:	LOCO HILLS	MD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Well:	GISSLER FED #17H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,463.0	88.67	92.53	4,530.4	-79.1	2,295.0	2,294.7	0.18	0.00	0.18
6,524.0	88.67	92.04	4,531.8	-81.5	2,355.9	2,355.6	0.80	0.00	-0.80
6,586.0	89.10	91.82	4,533.0	-83.6	2,417.9	2,417.6	0.78	0.69	-0.35
6,647.0	88.99	92.61	4,534.0	-86.0	2,478.8	2,478.5	1.31	-0.18	1.30
6,708.0	88.07	93.41	4,535.6	-89.2	2,539.7	2,539.4	2.00	-1.51	1.31
6,770.0	88.79	93.57	4,537.3	-93.0	2,601.6	2,601.2	1.19	1.16	0.26
6,831.0	88.56	93.94	4,538.7	-96.9	2,662.4	2,662.1	0.71	-0.38	0.61
6,893.0	87.41	94.41	4,540.9	-101.5	2,724.2	2,723.9	2.00	-1.85	0.76
6,956.0	87.98	94.89	4,543.4	-106.6	2,787.0	2,786.6	1.18	0.90	0.76
7,019.0	88.82	94.50	4,545.2	-111.7	2,849.7	2,849.3	1.47	1.33	-0.62
7,080.0	89.18	93.37	4,546.2	-115.9	2,910.6	2,910.2	1.94	0.59	-1.85
7,143.0	89.13	92.16	4,547.2	-118.9	2,973.5	2,973.1	1.92	-0.08	-1.92
7,206.0	89.30	90.70	4,548.0	-120.5	3,036.5	3,036.1	2.33	0.27	-2.32
7,269.0	89.87	90.70	4,548.5	-121.3	3,099.4	3,099.0	0.90	0.90	0.00
7,332.0	90.04	90.25	4,548.5	-121.8	3,162.4	3,162.0	0.76	0.27	-0.71
7,395.0	89.22	89.76	4,549.0	-121.8	3,225.4	3,225.0	1.52	-1.30	-0.78
7,458.0	89.64	89.41	4,549.6	-121.4	3,288.4	3,288.0	0.87	0.67	-0.56
7,521.0	90.19	89.09	4,549.7	-120.5	3,351.4	3,351.0	1.01	0.87	-0.51
7,584.0	90.56	89.03	4,549.3	-119.5	3,414.4	3,414.0	0.59	0.59	-0.10
7,647.0	89.71	88.58	4,549.1	-118.2	3,477.4	3,477.0	1.53	-1.35	-0.71
7,710.0	90.16	88.61	4,549.2	-116.6	3,540.4	3,540.0	0.72	0.71	0.05
7,773.0	89.25	88.76	4,549.5	-115.2	3,603.4	3,603.0	1.46	-1.44	0.24
7,836.0	89.16	88.44	4,550.4	-113.7	3,666.3	3,666.0	0.53	-0.14	-0.51
7,898.0	88.08	88.60	4,551.9	-112.0	3,728.3	3,727.9	1.76	-1.74	0.26
7,961.0	88.02	89.33	4,554.0	-110.9	3,791.3	3,790.9	1.16	-0.10	1.16
8,024.0	88.24	90.20	4,556.1	-110.7	3,854.2	3,853.8	1.42	0.35	1.38
8,087.0	88.67	90.20	4,557.8	-110.9	3,917.2	3,916.8	0.68	0.68	0.00
8,150.0	88.51	91.01	4,559.3	-111.5	3,980.2	3,979.8	1.31	-0.25	1.29
8,213.0	87.52	91.66	4,561.5	-113.0	4,043.1	4,042.7	1.88	-1.57	1.03
8,276.0	87.75	91.90	4,564.1	-115.0	4,106.0	4,105.6	0.53	0.37	0.38
8,339.0	88.24	92.10	4,566.3	-117.2	4,169.0	4,168.6	0.84	0.78	0.32
8,402.0	88.93	91.39	4,567.9	-119.1	4,231.9	4,231.5	1.57	1.10	-1.13
8,465.0	89.53	91.70	4,568.7	-120.8	4,294.9	4,294.5	1.07	0.95	0.49
8,528.0	89.82	90.39	4,569.1	-121.9	4,357.9	4,357.5	2.13	0.46	-2.08
8,590.0	89.45	88.39	4,569.5	-121.3	4,419.9	4,419.4	3.28	-0.60	-3.23
8,653.0	89.33	86.81	4,570.1	-118.6	4,482.8	4,482.4	2.52	-0.19	-2.51
8,715.0	89.21	85.98	4,570.9	-114.7	4,544.7	4,544.3	1.35	-0.19	-1.34
8,778.0	88.16	84.95	4,572.4	-109.7	4,607.5	4,607.1	2.33	-1.67	-1.63
8,841.0	88.54	82.87	4,574.2	-103.1	4,670.1	4,669.7	3.35	0.60	-3.30
8,904.0	88.51	81.42	4,575.8	-94.5	4,732.5	4,732.1	2.30	-0.05	-2.30
8,968.0	88.82	81.72	4,577.3	-85.1	4,795.7	4,795.4	0.67	0.48	0.47
9,031.0	88.68	81.09	4,578.7	-75.7	4,858.0	4,857.8	1.02	-0.22	-1.00
9,094.0	87.94	80.36	4,580.5	-65.5	4,920.2	4,919.9	1.65	-1.17	-1.16



Survey Report

Company:	NEW MEXICO SHELF	Local Co-ordinate Reference:	Well GISSLER FED #17H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Site:	LOCO HILLS	MD Reference:	RKB=3689+17 @ 3706.0usft (DOUBLE K 7)
Well:	GISSLER FED #17H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,157.0	88.22	80.37	4,582.6	-55.0	4,982.2	4,982.0	0.44	0.44	0.02
9,220.0	88.34	80.32	4,584.5	-44.4	5,044.3	5,044.2	0.21	0.19	-0.08
9,282.0	88.45	80.21	4,586.3	-33.9	5,105.4	5,105.3	0.25	0.18	-0.18
9,346.0	88.70	80.25	4,587.9	-23.1	5,168.5	5,168.4	0.40	0.39	0.06
9,408.0	88.85	79.90	4,589.2	-12.4	5,229.5	5,229.5	0.61	0.24	-0.56
9,471.0	88.99	80.30	4,590.4	-1.6	5,291.6	5,291.5	0.67	0.22	0.63
9,534.0	89.28	80.60	4,591.3	8.9	5,353.7	5,353.7	0.66	0.46	0.48
9,601.0	89.28	80.60	4,592.2	19.8	5,419.8	5,419.8	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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API #	30-015-44914	GISSLER FEDERAL 17H	County, ST	Eddy, NM
Operator	Spur Energy Partners, LLC		Sec-Twn-Rng	6-17S-30E
Field	LOCO HILLS-GLORIETA YESO		Footage	990' FSL 170' FEL
Spud Date	9/12/2018		Survey	

GL	3689'
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Hole Size	17-1/2"
TOC	Surf
Method	Circ Returns

Csg Depth	464'
Size	13-3/8"
Weight	54.5#
Grade	J-55
Connections	BTC
Cement	surface

PBTD	9515'
TD MD	9601'
TD TVD	4592'

Hole Size	12-1/4"
TOC	Surf
Method	Circ Returns

Csg Depth	1254'
Size	9-5/8"
Weight	40#
Grade	J-55
Connections	BTC
Cement	surface

Hole Size	8-3/4"
TOC	Surf
Method	Circ Returns

Csg Depth	3748'	9580'
Size	7"	5-1/2"
Weight	29#	20#
Grade	L-80	L-80
Connections	BTC	BTC
Cement	surface	

