Sundry Print Report

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Well Name: RODEO UNIT Well Location: T23N / R9W / SEC 25 / County or Parish/State: SAN

SESW / 36.191178 / -107.744935 JUAN / NM

Well Number: 513H Type of Well: OIL WELL Allottee or Tribe Name:

EASTERN NAVAJO

Lease Number: N0G13121859 Unit or CA Name: Unit or CA Number:

NMNM136328A, NMNM136328X

US Well Number: 3004535873 Well Status: Drilling Well Operator: ENDURING

RESOURCES LLC

Notice of Intent

Sundry ID: 2712768

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/26/2023 Time Sundry Submitted: 04:47

Date proposed operation will begin: 01/26/2023

Procedure Description: Enduring Resources requests to change the HSU of the Rodeo Unit 513H well per the attached updated C-102 plat. The dedicated acreage is changing from 1121.44 acres to 800.50 acres. See the attached documents for details.

NOI Attachments

Procedure Description

Rodeo_Unit__513H_Detailed_As_Drilled_C_102_Plat___signed_KS_20230126164710.pdf

Enduring_Rodeo__513H_svys_dec2322__12097__20230126105538.pdf

RODU_513H_Drilling_Package_11082022_20230126105533.pdf

RODU_513H_WBD_11082022_20230126105531.pdf

eceived by OCD: 1/27/2023 12:07:24 PM Well Name: RODEO UNIT

Well Location: T23N / R9W / SEC 25 /

SESW / 36.191178 / -107.744935

County or Parish/State: SAN

JUAN / NM

Well Number: 513H

Type of Well: OIL WELL

Allottee or Tribe Name: EASTERN NAVAJO

Lease Number: N0G13121859

Unit or CA Name:

Unit or CA Number:

NMNM136328A, NMNM136328X

US Well Number: 3004535873

Well Status: Drilling Well

Operator: ENDURING RESOURCES LLC

Zip:

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: KAYLA WHITE Signed on: JAN 26, 2023 04:46 PM

Name: ENDURING RESOURCES LLC

Title: Staff Engineer

Street Address: 9446 CLERMONT ST

City: THORNTON State: CO

Phone: (720) 768-3575

Email address: KWHITE@CDHCONSULT.COM

Field

Representative Name:

Street Address:

City: State:

Phone:

Email address:

Page 2 of 2

Received by OGD: 1/27/2023-12:07:242PM

Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First Street, Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6 Fax: (505) 334-6170

District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

Energy, Minerals & Natural Resources Department

State of New Mexico

Revised August Submit one copy to

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Form C-102 Just 1, **Page 3 of 34**

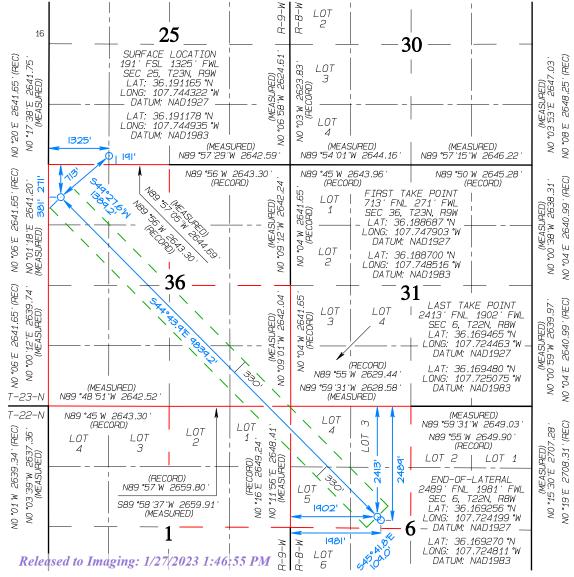
OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505

AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

		API Numbe			²Pool Coo			³Pool Nam	_			
	30-1	045-35	i873		97232	2		BASIN MAN	COS			
	⁴Property	Code		l		*Property	y Name			⁶ Well Number		
	32125	53				RODEO	UNIT			513H		
	70GRID N	No.				*Operator	Name			°Elevation		
	37228	36			EN	DURING RES	SOURCES, LLC				6798'	
						¹⁰ Surface	Location		•			
	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
	N	25	23N	9W		191	191 SOUTH 1325				SAN JUAN	
			-	^{l1} Botto	m Hole	Location I	f Different	From Surfac	е			
	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
	F	6	22N	8W		2489	NORTH	1981	WE	ST	SAN JUAN	
A	icated cres N	E/4 - W/4 -	Sec 1, Sec 6,	T22NR9 T22NR8	W W	¹³ Joint or Infill	¹⁴ Consolidation Code	15 Order No.	313			
	W/2,	NE/4	- Sec 3	36, T23I	VR9W	NO ALI	LOWABLE WILL	BE ASSIGNED	TO TH	IIS CON	MPLETION	

UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION "UPERATUR 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.

Khem Sithiwan 1/26/2023

Khem Suthiwan Printed Name

Signature

ksuthiwan@enduringresources.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.

Date Revised: JANUARY 26, 2023 Survey Date: JANUARY 24, 2017

Signature and Seal of Professional Surveyor



DWARDS

Certificate Number

15269

Received by OGD: 1/27/2023-12:07:242PM

Phone: (575) 393-6161 Fax: (575) 393-0720

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District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

Revised August

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Form (P-102 just 1, **Page 4 of 34**

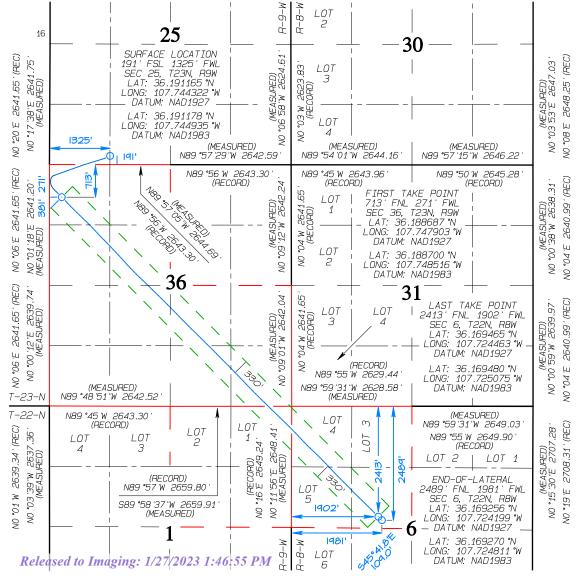
OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505

AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

		API Numbe 045–35			°Pool Coo 97232			³Pool Nam BASIN MAN				
	⁴Property 32125					Property BODEO				°Well Number 513H		
	70GRID N 37228	No.			EN	*Operator				°E	levation 6798'	
						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	
	Ν	25	23N	9W		191	191 SOUTH 1325 WEST SA					
•			1	¹ Botto	m Hole	Location I	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	
	F	6	22N	8W		2489	NORTH	1981	WES	Т	SAN JUAN	
	0.50 N	W/4 -	Sec 1, Sec 6,	T22NR8	3W	¹³ Joint or Infill	¹⁴ Consolidation Code	15 Order No. $R-14$	313			
	W/2,	NE/4	- Sec	36, T23	3NR9W	NO ALI	LOWABLE WILL	BE ASSIGNED	TO THI	S COM	PLETION	

UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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Khem Sidhiwan 1/26/2023

Khem Suthiwan Printed Name

ksuthiwan@enduringresources.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.

Date Revised: JANUARY 26, 2023 Survey Date: JANUARY 24, 2017

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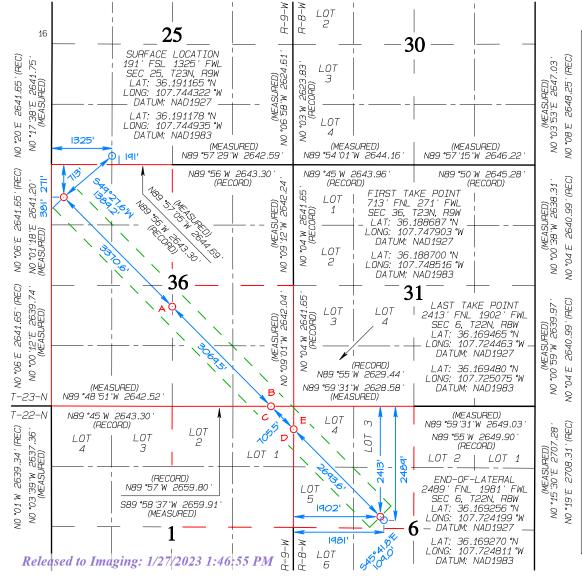
OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505

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		API Numbe 045-35			*Pool Coo 97232						
	⁴Property 32125					⁵Property RODEO					11 Number 513H
	70GRID N 37228				EN	°Operator DURING RES	Name SOURCES, LLC			_	levation 6798'
						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
	Ν	25	23N	9W		191	191 SOUTH 1325 WEST SAN				
'			1	¹ Botto	m Hole	Location I	f Different f	rom Surfac	е		
	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line	County
	F	6	22N	8W		2489	NORTH	1981	WES	Τ	SAN JUAN
12 Ded A	0.50 N	W/4 -	Sec 1, Sec 6,	T22NR8	W	¹³ Joint or Infill	¹⁴ Consolidation Code	15 Order No. $R-14$	313		,
	W/2,	NE/4	- Sec 3	36, T23	NR9W	NO ALI	LOWABLE WILL	BE ASSIGNED	TO THI	S COM	PLETION

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Khem Suthiwan 1/26/2023 Signature

Khem Suthiwan

Printed Name ksuthiwan@enduringresources.com

F-mail Address

¹⁸ Surveyor certification

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Date Revised: JANUARY 26, 2023 Survey Date: JANUARY 24, 2017

Signature and Seal of Professional Surveyor



DWARDS

Certificate Number

15269

(A) 2181' FSL 2653' FEL SEC 36, T23N, R9W LAT: 36.182103°N LONG: 107.739872°W DATUM: NAD1927

LAT: 36.182116 °N LONG: 107.740484 °W DATUM: NAD1983

(B) 0' FSL 498' FEL SEC 36, T23N, R9W LAT: 36.176106°N LONG: 107.732559°W DATUM: NAD1927

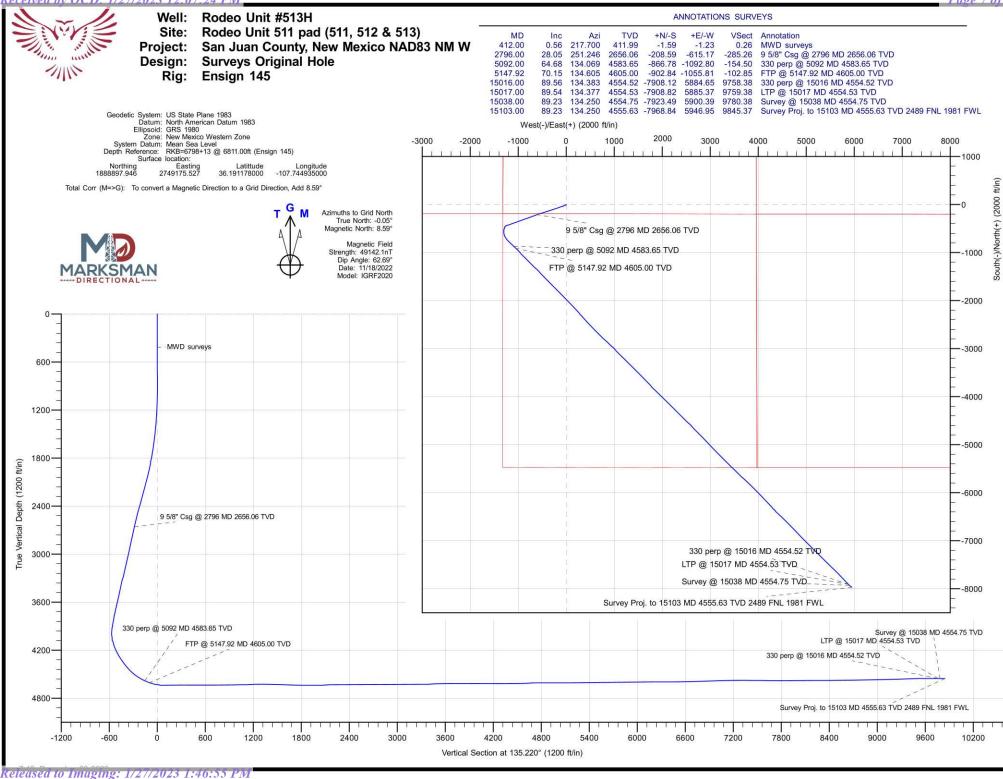
LAT: 36.176120 °N LONG: 107.733172 °W DATUM: NAD1983 (C) 0' FNL 498' FEL SEC 1, T22N, R9W LAT: 36.176106°N LONG: 107.732559°W DATUM: NAD1927

LAT: 36.176120°N LONG: 107.733172°W DATUM: NAD1983

(D) 501' FNL 0' FEL SEC 1, T22N, R9W LAT: 36.174728 °N LONG: 107.730879 °W DATUM: NAD1927

LAT: 36.174742 °N LONG: 107.731491 °W DATUM: NAD1983 (E) 501' FNL 0' FWL SEC 6, T22N, R8W LAT: 36.174728 °N LONG: 107.730879 °W DATUM: NAD1927

LAT: 36.174742°N LONG: 107.731491°W DATUM: NAD1983







Enduring Resources LLC Company:

Project: San Juan County, New Mexico NAD83 NM W

Site: Rodeo Unit 511 pad (511, 512 & 513)

Rodeo Unit #513H Well: Wellbore: Original Hole Design: Surveys Original Hole Local Co-ordinate Reference:

Well Rodeo Unit #513H

TVD Reference: RKB=6798+13 @ 6811.00ft (Ensign 145) RKB=6798+13 @ 6811.00ft (Ensign 145) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature DB Decv0422v16 Database:

San Juan County, New Mexico NAD83 NM W Project

Map System: US State Plane 1983 North American Datum 1983 Geo Datum: Map Zone: New Mexico Western Zone

System Datum: Mean Sea Level

Site Rodeo Unit 511 pad (511, 512 & 513)

1,888,898.347 usft Northing: Latitude: 36.191179000 Site Position: From: Lat/Long Easting: 2,749,215.362 usft Longitude: -107.744800000

Position Uncertainty: 0.00 ft Slot Radius: 13-3/16 "

Well Rodeo Unit #513H, Surf loc: 191 FSL 1325 FWL Section 25-T23N-R07W **Well Position** +N/-S 0.00 ft Northing: 1,888,897.946 usft Latitude: 36.191178000 +E/-W 0.00 ft Easting: 2,749,175.527 usft Longitude: -107.744935000 0.00 ft 6,798.00 ft **Position Uncertainty** Wellhead Elevation: ft Ground Level: **Grid Convergence:** 0.05°

Wellbore Original Hole Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) IGRF2020 11/18/2022 8.65 62.69 49,142.13157349

Design Surveys Original Hole Audit Notes: Version: 1.0 ACTUAL Tie On Depth: 0.00 Phase: Direction Vertical Section: Depth From (TVD) +N/-S +F/-W (ft) (ft) (ft) (°) 0.00 0.00 0.00 135.220

12/23/2022 **Survey Program** Date From To (ft) (ft) Survey (Wellbore) **Tool Name** Description 412.00 2,654.00 MWD surf (Original Hole) MWD OWSG MWD - Standard 2,745.00 15,038.00 MWD (Original Hole) MWD OWSG MWD - Standard 15,103.00 15,103.00 Projection (Original Hole) MWD OWSG MWD - Standard

Survey Vertical Vertical Build Measured Dogleg Turn Depth Depth Section Rate Rate Rate Inclination +N/-S +F/-W Azimuth (ft) (ft) (ft) (°/100ft) (°/100ft) (°/100ft) (°) (ft) (ft) (°) 0.00 0.00 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 412.00 0.56 217.700 411.99 -1.59 -1.230.26 0.14 0.14 0.00 MWD surveys 503.00 0.68 209.390 502.99 -2.42 -1.77 0.47 0.16 0.13 -9.13 594.00 0.66 207.120 593.98 -3.35 0.78 0.04 -0.02 -2.27-2.49685.00 0.73 214.000 684.98 -4.30 0.12 0.08 7.56 -2.841.05 776.00 0.13 0.62 775.97 1.23 4.15 217.780 -5.17-3.46-0.12866.00 0.54 865.96 -5.84 -4.07 1.28 0.13 -0.09 9.92 226.710





TVD Reference:

MD Reference:

North Reference:



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Rodeo Unit 511 pad (511, 512 & 513)

Well: Rodeo Unit #513H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference:

Well Rodeo Unit #513H

RKB=6798+13 @ 6811.00ft (Ensign 145) RKB=6798+13 @ 6811.00ft (Ensign 145)

Gric

Survey										
urvey										
	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)
	957.00	0.40	218.010	956.96	-6.39	-4.58	1.31	0.17	-0.15	-9.56
	1,051.00	3.76	250.270	1,050.89	-7.69	-7.68	0.05	3.65	3.57	34.32
	1,146.00	6.49	251.960	1,145.50	-10.40	-15.72	-3.69	2.88	2.87	1.78
	1,240.00	8.67	249.280	1,238.67	-14.56	-27.40	-8.97	2.35	2.32	-2.85
	1,334.00	12.01	247.570	1,331.13	-20.80	-43.07	-15.58	3.57	3.55	-1.82
	1,429.00	15.28	245.030	1,423.44	-29.85	-63.56	-23.58	3.50	3.44	-2.67
	1,523.00	18.56	246.610	1,513.36	-41.02	-88.52	-33.24	3.52	3.49	1.68
	1,617.00	19.01	250.400	1,602.35	-52.10	-116.68	-45.21	1.38	0.48	4.03
	1,711.00	18.71	251.500	1,691.31	-62.02	-145.40	-58.39	0.49	-0.32	1.17
	1,806.00	19.79	252.270	1,781.00	-71.75	-175.17	-72.46	1.17	1.14	0.81
	1,900.00	22.79	252.600	1,868.57	-82.04	-207.71	-88.07	3.19	3.19	0.35
	1,994.00	26.21	252.750	1,954.09	-93.65	-244.91	-106.04	3.64	3.64	0.16
	2,089.00	28.88	252.990	2,038.32	-106.58	-286.89	-126.43	2.81	2.81	0.25
	2,183.00	29.29	252.670	2,120.46	-120.07	-330.55	-147.61	0.47	0.44	-0.34
	2,277.00	29.45	252.960	2,202.38	-133.69	-374.59	-168.96	0.23	0.17	0.31
	2,371.00	29.64	252.540	2,284.16	-147.44	-418.86	-190.39	0.30	0.20	-0.45
	2,466.00	30.00	253.370	2,366.58	-161.28	-464.03	-212.37	0.58	0.38	0.87
	2,560.00	29.36	253.130	2,448.25	-174.70	-508.60	-234.25	0.69	-0.68	-0.26
	2,654.00	28.15	252.500	2,530.66	-188.05	-551.80	-255.20	1.33	-1.29	-0.67
	2,745.00	27.84	252.040	2,611.01	-201.06	-592.48	-274.62	0.42	-0.34	-0.51
	2,796.00	28.05	251.246	2,656.06	-208.59	-615.17	-285.26	0.84	0.42	-1.56
	V-0-00-00-00-00-00-00-00-00-00-00-00-00-	2796 MD 2656.0		2,000.00		0.0		0.00	, , , , , , , , , , , , , , , , , , ,	
	2,823.00	28.17	250.830	2,679.87	-212.72	-627.20	-290.80	0.84	0.43	-1.54
	2,887.00	28.82	250.190	2,736.12	-222.91	-655.98	-303.84	1.12	1.02	-1.00
	2,981.00	27.88	248.440	2,818.85	-238.67	-697.74	-322.07	1.33	-1.00	-1.86
	3,075.00	28.83	251.100	2,901.57	-254.08	-739.63	-340.63	1.68	1.01	2.83
	3,170.00	28.58	249.960	2,984.90	-269.29	-782.64	-360.14	0.63	-0.26	-1.20
	3,263.00	27.49	249.060	3,066.98	-284.59	-823.59	-378.12	1.26	-1.17	-0.97
	3,358.00	28.25	252.080	3,150.97	-299.34	-865.46	-397.14	1.69	0.80	3.18
	3,452.00	26.80	251.520	3,234.33	-312.90	-906.73	-416.59	1.57	-1.54	-0.60
	3,547.00	29.00	250.610	3,318.28	-327.34	-948.77	-435.95	2.36	2.32	-0.96
	3,641.00	26.57	248.200	3,401.44	-342.71	-989.79	-453.93	2.85	-2.59	-2.56
	3,735.00	29.93	250.090	3,484.23	-358.51	-1,031.37	-472.01	3.70	3.57	2.01
	3,830.00	30.31	250.660	3,566.40	-374.52	-1,076.27	-492.27	0.50	0.40	0.60
	3,924.00	27.82	249.760	3,648.56	-389.97	-1,119.24	-511.57	2.69	-2.65	-0.96
	4,018.00	28.17	251.250	3,731.56	-404.69	-1,160.83	-530.42	0.83	0.37	1.59
	4,112.00	22.79	249.290	3,816.39	-418.27	-1,198.90	-547.60	5.79	-5.72	-2.09
	4,143.00	21.08	249.090	3,845.15	-422.38	-1,209.73	-552.30	5.52	-5.52	-0.65
	4,174.00	21.69	247.930	3,874.01	-426.52	-1,220.24	-556.77	2.39	1.97	-3.74
	4,206.00	23.79	247.390	3,903.52	-431.23	-1,231.68	-561.49	6.59	6.56	-1.69
	4,237.00	24.63	243.830	3,931.80	-436.48	-1,243.25	-565.91	5.43	2.71	-11.48
	4,268.00	25.17	235.570	3,959.92	-443.06	-1,254.49	-569.16	11.34	1.74	-26.65
	4,300.00	25.88	226.370	3,988.81	-451.73	-1,265.17	-570.52	12.57	2.22	-28.75
	4,331.00	26.70	217.090	4,016.62	-461.96	-1,274.27	-569.67	13.51	2.65	-29.94





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Rodeo Unit 511 pad (511, 512 & 513)

Well: Rodeo Unit #513H Original Hole Wellbore: Design: Surveys Original Hole Local Co-ordinate Reference:

Well Rodeo Unit #513H RKB=6798+13 @ 6811.00ft (Ensign 145) TVD Reference: MD Reference: RKB=6798+13 @ 6811.00ft (Ensign 145)

North Reference:

Survey										
	Measured			Vertical			Vertical	Dogleg	Build	Turn
	Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
	4,363.00	27.66	208.900	4,045.09	-474.20	-1,282.19	-566.57	12.06	3.00	-25.59
	4,394.00	28.93	202.630	4,072.39	-487.42	-1,288.56	-561.66	10.42	4.10	-20.23
	4,426.00	29.99	197.150	4,100.26	-502.21	-1,293.90	-554.92	9.05	3.31	-17.13
	4,457.00	31.01	192.280	4,126.98	-517.42	-1,297.88	-546.94	8.62	3.29	-15.71
	4,488.00	32.07	187.720	4,153.40	-533.38	-1,300.68	-537.58	8.42	3.42	-14.71
	4,520.00	33.03	183.110	4,180.38	-550.51	-1,302.30	-526.56	8.31	3.00	-14.41
	4,551.00	33.93	178.420	4,206.24	-567.60	-1,302.52	-514.59	8.83	2.90	-15.13
	4,583.00	34.57	174.740	4,232.69	-585.57	-1,301.44	-501.07	6.77	2.00	-11.50
	4,614.00	35.21	170.040	4,258.12	-603.13	-1,299.09	-486.95	8.91	2.06	-15.16
	4,646.00	35.83	165.300	4,284.17	-621.28	-1,295.11	-471.26	8.82	1.94	-14.81
	4,677.00	36.32	160.900	4,309.23	-638.74	-1,289.81	-455.14	8.50	1.58	-14.19
	4,709.00	37.02	155.330	4,334.91	-656.45	-1,282.68	-437.54	10.62	2.19	-17.41
	4,740.00	37.99	150.000	4,359.51	-673.20	-1,274.01	-419.55	10.92	3.13	-17.19
	4,771.00	38.45	145.010	4,383.87	-689.36	-1,263.72	-400.82	10.07	1.48	-16.10
	4,803.00	39.63	141.230	4,408.72	-705.47	-1,251.62	-380.87	8.30	3.69	-11.81
	4,003.00	39.03	141.230	4,400.72	-705.47	-1,231.02	-300.07	0.50	3.09	-11.01
	4,834.00	41.86	139.170	4,432.21	-721.01	-1,238.66	-360.71	8.40	7.19	-6.65
	4,866.00	44.09	137.190	4,455.62	-737.26	-1,224.11	-338.93	8.15	6.97	-6.19
	4,897.00	46.81	135.770	4,477.37	-753.27	-1,208.90	-316.85	9.36	8.77	-4.58
	4,929.00	49.73	134.770	4,498.67	-770.23	-1,192.09	-292.97	9.42	9.13	-3.13
	4,960.00	53.03	133.990	4,518.01	-787.17	-1,174.78	-268.76	10.83	10.65	-2.52
	4,991.00	57.21	133.860	4,535.74	-804.80	-1,156.47	-243.34	13.49	13.48	-0.42
	5,023.00	61.38	134.500	4,552.07	-823.98	-1,136.74	-215.83	13.14	13.03	2.00
	5,054.00	62.52	134.280	4,566.65	-843.11	-1,117.19	-188.48	3.73	3.68	-0.71
	5,085.00	63.93	134.040	4,580.62	-862.39	-1,097.34	-160.81	4.60	4.55	-0.77
	5,092.00	64.68	134.069	4,583.65	-866.78	-1,092.80	-154.50	10.79	10.78	0.42
		5092 MD 4583.65				*:				
	5,117.00	67.38	134.170	4,593.80	-882.68	-1,076.41	-131.66	10.79	10.78	0.40
	5,147.92	70.15	134.605	4,605.00	-902.84	-1,055.81	-102.85	9.06	8.97	1.41
		.92 MD 4605.00 T		.,500.00	552.51	.,555.51	. 52.00	0.00	0.01	67.576.6
	5,149.00	70.25	134.620	4,605.37	-903.56	-1,055.09	-101.83	9.06	8.97	1.38
	5,180.00	73.62	135.210	4,614.98	-924.36	-1,034.22	-72.36	11.02	10.87	1.90
	5,212.00	76.50	135.040	4,623.23	-946.27	-1,012.41	-41.45	9.01	9.00	-0.53
	E 040.00	70.50	405.040	4 600 05	007.70		44.40	0.00	0.04	0.07
	5,243.00	79.58	135.340	4,629.65	-967.78	-991.04	-11.13	9.98	9.94	0.97
	5,274.00	82.75	135.950	4,634.41	-989.68	-969.63	19.50	10.41	10.23	1.97
	5,306.00	86.80	136.780	4,637.33	-1,012.74	-947.64	51.35	12.92	12.66	2.59
	5,337.00	88.97	136.950	4,638.47	-1,035.35	-926.46	82.32	7.02	7.00	0.55
	5,431.00	91.27	136.460	4,638.27	-1,103.76	-862.01	176.28	2.50	2.45	-0.52
	5,525.00	89.96	135.190	4,637.26	-1,171.17	-796.51	270.27	1.94	-1.39	-1.35
	5,619.00	90.25	133.970	4,637.09	-1,237.15	-729.56	364.26	1.33	0.31	-1.30
	5,714.00	92.23	133.010	4,635.04	-1,302.51	-660.66	459.19	2.32	2.08	-1.01
	5,809.00	89.53	134.660	4,633.58	-1,368.29	-592.15	554.14	3.33	-2.84	1.74
	5,903.00	89.39	134.700	4,634.46	-1,434.38	-525.31	648.13	0.15	-0.15	0.04
	5,997.00	89.74	134.070	4,635.18	-1,500.13	-458.13	742.11	0.77	0.37	-0.67





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Rodeo Unit 511 pad (511, 512 & 513)

Well: Rodeo Unit #513H Original Hole Wellbore: Design: Surveys Original Hole Local Co-ordinate Reference:

Well Rodeo Unit #513H RKB=6798+13 @ 6811.00ft (Ensign 145) TVD Reference:

MD Reference: RKB=6798+13 @ 6811.00ft (Ensign 145) North Reference:

rvey										
10	sured pth t)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,	092.00	90.52	136.810	4,634.96	-1,567.81	-391.48	837.10	3.00	0.82	2.88
6,	186.00	92.95	137.590	4,632.11	-1,636.75	-327.65	931.00	2.71	2.59	0.83
6,	281.00	89.91	136.270	4,629.74	-1,706.11	-262.81	1,025.91	3.49	-3.20	-1.39
6,	375.00	89.72	135.320	4,630.05	-1,773.50	-197.27	1,119.91	1.03	-0.20	-1.01
6,	470.00	91.29	134.970	4,629.21	-1,840.84	-130.27	1,214.90	1.69	1.65	-0.37
6,	564.00	88.96	136.120	4,629.01	-1,907.93	-64.44	1,308.89	2.76	-2.48	1.22
6,	658.00	91.19	137.060	4,628.88	-1,976.21	0.15	1,402.85	2.57	2.37	1.00
6,	751.00	88.21	136.810	4,629.37	-2,044.15	63.65	1,495.80	3.22	-3.20	-0.27
6,	845.00	87.61	136.500	4,632.80	-2,112.46	128.13	1,589.71	0.72	-0.64	-0.33
6,	939.00	90.19	136.770	4,634.60	-2,180.78	192.65	1,683.65	2.76	2.74	0.29
7,	034.00	89.72	137.260	4,634.68	-2,250.27	257.42	1,778.61	0.71	-0.49	0.52
	129.00	88.90	138.630	4,635.82	-2,320.80	321.05	1,873.49	1.68	-0.86	1.44
	223.00	89.99	136.820	4,636.73	-2,390.35	384.28	1,967.39	2.25	1.16	-1.93
	317.00	90.94	135.780	4,635.97	-2,458.30	449.22	2,061.37	1.50	1.01	-1.11
7.	412.00	90.55	136.270	4,634.73	-2,526.66	515.17	2,156.35	0.66	-0.41	0.52
	506.00	90.86	133.650	4,633.58	-2,593.08	581.68	2,250.33	2.81	0.33	-2.79
	601.00	89.80	134.070	4,633.03	-2,658.90	650.17	2,345.30	1.20	-1.12	0.44
	695.00	88.96	134.630	4,634.05	-2,724.60	717.39	2,439.29	1.07	-0.89	0.60
	789.00	91.40	133.780	4,633.75	-2,790.14	784.76	2,533.26	2.75	2.60	-0.90
7	883.00	90.85	134.410	4,631.91	-2,855.53	852.26	2,627.23	0.89	-0.59	0.67
	978.00	89.76	134.750	4,631.40	-2,922.21	919.92	2,722.22	1.20	-1.15	0.36
	072.00	90.93	134.220	4,630.83	-2,988.08	986.98	2,816.21	1.37	1.24	-0.56
	167.00	90.93	134.260	4,630.06	-3,054.35	1,055.04	2,911.19	0.98	-0.98	0.04
	261.00	91.32	134.540	4,628.98	-3,120.12	1,122.20	3,005.17	1.44	1.40	0.30
0	355.00	90.69	134.990	4,627.33	-3,186.30	1,188.93	3,099.15	0.82	-0.67	0.48
										0.32
	449.00 543.00	89.36	135.290	4,627.29	-3,252.93 -3,319.53	1,255.23	3,193.15	1.45	-1.41	
		91.05	134.940	4,626.95		1,321.56	3,287.15	1.84	1.80	-0.37
	638.00 732.00	91.74 91.33	135.130 136.050	4,624.64 4,622.12	-3,386.72 -3,453.85	1,388.67 1,454.43	3,382.12 3,476.08	0.75 1.07	0.73 -0.44	0.20 0.98
0	000.00	00.70	120,000	4 620 20	2 524 97	4 540 00	2 570 04	0.00	0.57	0.07
	826.00	90.79	136.680	4,620.38	-3,521.87	1,519.28	3,570.04	0.88	-0.57	0.67
	921.00	90.82	135.020	4,619.05	-3,590.02	1,585.45	3,665.02	1.75	0.03	-1.75
	015.00	90.13	135.270	4,618.27	-3,656.66	1,651.74	3,759.02	0.78	-0.73	0.27
	109.00 204.00	89.68 90.72	135.670 133.770	4,618.43 4,618.09	-3,723.67 -3,790.51	1,717.66 1,785.16	3,853.02 3,948.01	0.64 2.28	-0.48 1.09	0.43 -2.00
_	200.00	00.00	122.000	4 647 40	2 055 00	1 050 04	4.044.00		0.00	0.00
	298.00	90.38	133.990	4,617.19	-3,855.66	1,852.91	4,041.98	0.43	-0.36	0.23
200	392.00	90.13	134.490	4,616.77	-3,921.24	1,920.26	4,135.96	0.59	-0.27	0.53
	487.00	89.70	135.100	4,616.91	-3,988.17	1,987.67	4,230.96	0.79	-0.45	0.64
	582.00 676.00	90.88 90.28	134.370 134.700	4,616.43 4,615.48	-4,055.04 -4,120.96	2,055.15 2,122.15	4,325.95 4,419.94	1.46 0.73	1.24 -0.64	-0.77 0.35
					30.4 (0.00 V) (0.00 V) (0.00 V)		a*************************************			
	771.00	91.29	134.810	4,614.18	-4,187.84	2,189.61	4,514.93	1.07	1.06	0.12
	865.00	90.82	135.060	4,612.45	-4,254.22	2,256.14	4,608.91	0.57	-0.50	0.27
	960.00	90.25	135.360	4,611.56	-4,321.64	2,323.07	4,703.91	0.68	-0.60	0.32
	054.00	89.80	136.110	4,611.52	-4,388.95	2,388.68	4,797.90	0.93	-0.48	0.80
10,	148.00	91.16	134.860	4,610.73	-4,455.97	2,454.57	4,891.89	1.97	1.45	-1.33





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Rodeo Unit 511 pad (511, 512 & 513)

Well: Rodeo Unit #513H Original Hole Wellbore: Design: Surveys Original Hole Local Co-ordinate Reference:

Well Rodeo Unit #513H RKB=6798+13 @ 6811.00ft (Ensign 145) TVD Reference:

MD Reference: RKB=6798+13 @ 6811.00ft (Ensign 145) North Reference:

Survey										
1	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)
			1.00							
	10,242.00	90.79	135.020	4,609.13	-4,522.36	2,521.10	4,985.88	0.43	-0.39	0.17
	10,337.00	90.33	135.700	4,608.21	-4,589.96	2,587.85	5,080.87	0.86	-0.48	0.72
	10,432.00	89.76	136.240	4,608.13	-4,658.26	2,653.88	5,175.86	0.83	-0.60	0.57
	10,526.00	90.39	135.070	4,608.01	-4,725.48	2,719.58	5,269.86	1.41	0.67	-1.24
	10,621.00	89.86	135.780	4,607.80	-4,793.15	2,786.25	5,364.86	0.93	-0.56	0.75
	10,715.00	91.96	135.670	4,606.31	-4,860.44	2,851.86	5,458.84	2.24	2.23	-0.12
	10,809.00	91.67	136.580	4,603.33	-4,928.17	2,916.98	5,552.78	1.02	-0.31	0.97
	10,904.00	90.97	136.910	4,601.14	-4,997.34	2,982.06	5,647.72	0.81	-0.74	0.35
	10,998.00	89.85	136.580	4,600.47	-5,065.80	3,046.47	5,741.68	1.24	-1.19	-0.35
	11,093.00	90.84	135.330	4,599.90	-5,134.08	3,112.51	5,836.67	1.68	1.04	-1.32
	11,187.00	90.11	135.080	4,599.12	-5,200.78	3,178.74	5,930.66	0.82	-0.78	-0.27
	11,282.00	91.46	134.630	4,597.82	-5,267.78	3,246.08	6,025.65	1.50	1.42	-0.47
	11,376.00	90.84	134.520	4,595.93	-5,333.74	3,313.02	6,119.62	0.67	-0.66	-0.12
	11,470.00	90.05	133.960	4,595.20	-5,399.32	3,380.36	6,213.61	1.03	-0.84	-0.60
	11,565.00	90.79	134.100	4,594.50	-5,465.34	3,448.66	6,308.58	0.79	0.78	0.15
	11,659.00	89.17	133.460	4,594.54	-5,530.38	3,516.53	6,402.55	1.85	-1.72	-0.68
	11,754.00	90.86	134.430	4,594.51	-5,596.30	3,584.93	6,497.52	2.05	1.78	1.02
	11,848.00	90.17	134.830	4,593.67	-5,662.33	3,651.82	6,591.51	0.85	-0.73	0.43
	11,943.00	92.10	134.180	4,591.79	-5,728.91	3,719.56	6,686.48	2.14	2.03	-0.68
	12,036.00	91.78	134.330	4,588.64	-5,793.77	3,786.13	6,779.41	0.38	-0.34	0.16
	12,131.00	91.65	134.320	4,585.79	-5,860.12	3,854.06	6,874.36	0.14	-0.14	-0.01
	12,225.00	92.11	134.220	4,582.71	-5,925.70	3,921.33	6,968.30	0.50	0.49	-0.11
	12,320.00	90.76	135.630	4,580.33	-5,992.77	3,988.57	7,063.26	2.05	-1.42	1.48
	12,414.00	90.45	135.920	4,579.34	-6,060.12	4,054.13	7,157.25	0.45	-0.33	0.31
	12,508.00	90.60	136.740	4,578.48	-6,128.11	4,119.03	7,251.23	0.89	0.16	0.87
	12,603.00	89.14	136.950	4,578.69	-6,197.41	4,184.01	7,346.19	1.55	-1.54	0.22
	12,697.00	88.88	137.400	4,580.32	-6,266.35	4,247.90	7,440.12	0.55	-0.28	0.48
	12,792.00	90.08	134.410	4,581.18	-6,334.56	4,313.99	7,535.10	3.39	1.26	-3.15
	12,887.00	88.12	131.950	4,582.67	-6,399.55	4,383.25	7,630.01	3.31	-2.06	-2.59
	12,981.00	89.94	133.970	4,584.26	-6,463.60	4,452.02	7,723.92	2.89	1.94	2.15
	13,076.00	89.92	134.250	4,584.38	-6.529.72	4,520.24	7.818.90	0.30	-0.02	0.29
	13,170.00	91.44	135.190	4,583.26	-6,595.86	4,587.02	7,912.88	1.90	1.62	1.00
	13,264.00	90.84	135.580	4,581.39	-6,662.76	4,653.03	8,006.86	0.76	-0.64	0.41
	13,359.00	90.27	136.100	4,580.47	-6,730.91	4,719.21	8,101.85	0.81	-0.60	0.55
	13,453.00	89.88	137.040	4,580.35	-6,799.17	4,783.83	8,195.83	1.08	-0.41	1.00
	13,547.00	90.35	136.080	4,580.16	-6,867.42	4,848.46	8,289.80	1.14	0.50	-1.02
	13,642.00	89.64	136.670	4,580.17	-6,936.19	4,914.00	8,384.78	0.97	-0.75	0.62
	13,735.00	91.03	135.060	4,579.63	-7,002.93	4,978.76	8,477.77	2.29	1.49	-1.73
	13,830.00	90.42	135.100	4,578.42	-7,070.19	5,045.83	8,572.76	0.64	-0.64	0.04
	13,924.00	91.54	135.060	4,576.82	-7,136.74	5,112.20	8,666.74	1.19	1.19	-0.04
	14,018.00	90.62	135.800	4,575.04	-7,203.69	5,178.15	8,760.72	1.26	-0.98	0.79
	14,018.00	91.41	135.220	4,573.36	-7,203.69 -7,271.45	5,244.72	8,855.71	1.03	0.83	-0.61
			100.220	7,010.00	1,411.40	U.LTT.12	0,000.7	1.00	0.00	-0.01





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Rodeo Unit 511 pad (511, 512 & 513)

Well: Rodeo Unit #513H Wellbore: Original Hole Design: Surveys Original Hole Local Co-ordinate Reference:

Well Rodeo Unit #513H RKB=6798+13 @ 6811.00ft (Ensign 145) TVD Reference:

MD Reference: RKB=6798+13 @ 6811.00ft (Ensign 145)

North Reference:

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)
14,301.00	90.92	134.840	4,570.19	-7,405.50	5,376.49	9,043.67	1.19	0.16	-1.18
14,396.00	90.11	135.060	4,569.33	-7,472.61	5,443.72	9,138.67	0.88	-0.85	0.23
14,490.00	92.05	133.820	4,567.56	-7,538.41	5,510.82	9,232.64	2.45	2.06	-1.32
14,585.00	92.62	134.230	4,563.69	-7,604.38	5,579.07	9,327.54	0.74	0.60	0.43
14,680.00	91.98	134.850	4,559.88	-7,670.96	5,646.73	9,422.45	0.94	-0.67	0.65
14,774.00	91.27	135.000	4,557.21	-7,737.31	5,713.25	9,516.41	0.77	-0.76	0.16
14,868.00	90.84	135.150	4,555.48	-7,803.86	5,779.62	9,610.40	0.48	-0.46	0.16
14,962.00	90.37	134.710	4,554.49	-7,870.24	5,846.17	9,704.39	0.68	-0.50	-0.47
15,016.00	89.56	134.383	4,554.52	-7,908.12	5,884.65	9,758.38	1.62	-1.50	-0.61
330 perp @	15016 MD 4554.5	52 TVD							
15,017.00	89.55	134.377	4,554.53	-7,908.82	5,885.37	9,759.38	1.62	-1.50	-0.61
LTP @ 1501	7 MD 4554.53 TV	D							
15,038.00	89.23	134.250	4,554.75	-7,923.49	5,900.39	9,780.38	1.62	-1.50	-0.61
Survey @ 1	5038 MD 4554.75	TVD							
15,103.00	89.23	134.250	4,555.63	-7,968.84	5,946.95	9,845.37	0.00	0.00	0.00
Survey Proi	. to 15103 MD 45	55 63 TVD 2489	FNI 1981 FWI						

gn Annotatio	ons				
N	Measured Depth (ft)	Vertical Depth (ft)	Local Coo +N/-S (ft)	rdinates +E/-W (ft)	Comment
	412.00	411.99	-1.59	-1.23	MWD surveys
	2,796.00	2,656.06	-208.59	-615.17	9 5/8" Csg @ 2796 MD 2656.06 TVD
	5,092.00	4,583.65	-866.78	-1,092.80	330 perp @ 5092 MD 4583.65 TVD
	5,147.92	4,605.00	-902.84	-1,055.81	FTP @ 5147.92 MD 4605.00 TVD
	15,016.00	4,554.52	-7,908.12	5,884.65	330 perp @ 15016 MD 4554.52 TVD
	15,017.00	4,554.53	-7,908.82	5,885.37	LTP @ 15017 MD 4554.53 TVD
	15,038.00	4,554.75	-7,923.49	5,900.39	Survey @ 15038 MD 4554.75 TVD
	15,103.00	4,555.63	-7,968.84	5,946.95	Survey Proj. to 15103 MD 4555.63 TVD 2489 FNL 1981 FWL

Checked By:	Approved By:	Date:	
	100 201 pt 100 200 200 200 200 200 200 200 200 200	N the amount of the contract o	



Survey Report - Geographic

TVD Reference:

MD Reference:



Enduring Resources LLC Company:

Project: San Juan County, New Mexico NAD83 NM W

Rodeo Unit 511 pad (511, 512 & 513) Site:

Rodeo Unit #513H Well: Original Hole Wellbore: Design: Surveys Original Hole Local Co-ordinate Reference:

Well Rodeo Unit #513H

RKB=6798+13 @ 6811.00ft (Ensign 145) RKB=6798+13 @ 6811.00ft (Ensign 145)

135.220

North Reference:

Survey Calculation Method: Minimum Curvature DB Decv0422v16 Database:

San Juan County, New Mexico NAD83 NM W Project

US State Plane 1983 Map System: North American Datum 1983 Geo Datum: Map Zone: New Mexico Western Zone

Mean Sea Level System Datum:

0.00

Site Rodeo Unit 511 pad (511, 512 & 513)

Northing: 1,888,898.347 usft Site Position: Latitude: 36.191179000 From: Lat/Long Easting: 2,749,215.362 usft Longitude: -107.744800000 **Position Uncertainty:** 0.00 ft Slot Radius: 13-3/16 " Grid Convergence: 0.05°

Well Rodeo Unit #513H, Surf loc: 191 FSL 1325 FWL Section 25-T23N-R07W **Well Position** +N/-S 0.00 ft Northing: 1,888,897.946 usft Latitude: 36.191178000 +E/-W 0.00 ft Easting: 2,749,175.527 usft Longitude: -107.744935000 0.00 ft Ground Level: 6,798.00 ft **Position Uncertainty** Wellhead Elevation: ft

Original Hole Wellbore **Model Name** Sample Date Declination Dip Angle Field Strength Magnetics (°) (°) (nT) IGRF2020 62.69 11/18/2022 8.65 49,142.13157349

Surveys Original Hole Design Audit Notes: ACTUAL Version: 1.0 Phase: Tie On Depth: 0.00 Depth From (TVD) +N/-S +E/-W Direction **Vertical Section:** (ft) (ft) (ft) (°)

0.00

0.00

Date 12/23/2022 Survey Program From To (ft) (ft) Survey (Wellbore) **Tool Name** Description 412.00 2,654.00 MWD surf (Original Hole) MWD OWSG MWD - Standard 2,745.00 15,038.00 MWD (Original Hole) MWD OWSG MWD - Standard 15,103.00 15,103.00 Projection (Original Hole) MWD OWSG MWD - Standard

urvey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,888,897.946	2,749,175.527	36.191178000	-107.744935000
412.00	0.56	217.700	411.99	-1.59	-1.23	1,888,896.353	2,749,174.296	36.191173626	-107.744939178
MWD su	rveys								
503.00	0.68	209.390	502.99	-2.42	-1.77	1,888,895.531	2,749,173.759	36.191171369	-107.744941000
594.00	0.66	207.120	593.98	-3.35	-2.27	1,888,894.594	2,749,173.255	36.191168796	-107.744942711
685.00	0.73	214.000	684.98	-4.30	-2.84	1,888,893.647	2,749,172.692	36.191166196	-107.744944622
776.00	0.62	217.780	775.97	-5.17	-3.46	1,888,892.777	2,749,172.066	36.191163808	-107.744946745
866.00	0.54	226.710	865.96	-5.84	-4.07	1,888,892.101	2,749,171.459	36.191161953	-107.744948805
957.00	0.40	218.010	956.96	-6.39	-4.58	1,888,891.557	2,749,170.952	36.191160459	-107.744950527
1,051.00	3.76	250.270	1,050.89	-7.69	-7.68	1,888,890.258	2,749,167.847	36.191156898	-107.744961051



Survey Report - Geographic

TVD Reference:



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Rodeo Unit 511 pad (511, 512 & 513)

Well: Rodeo Unit #513H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference:

Well Rodeo Unit #513H

RKB=6798+13 @ 6811.00ft (Ensign 145) RKB=6798+13 @ 6811.00ft (Ensign 145)

MD Reference: RKB=6798+13 @ 6811.00ft (Ensign 1

North Reference: Gri

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,146.00	6.49	251.960	1,145.50	-10.40	-15.72	1,888,887.543	2,749,159.809	36.191149460	-107.744988302
1,240.00	8.67	249.280	1,238.67	-14.56	-27.40	1,888,883.391	2,749,148.130	36.191138082	-107.745027896
1,334.00	12.01	247.570	1,331.13	-20.80	-43.07	1,888,877.151	2,749,132.458	36.191120980	-107.745081025
1,429.00	15.28	245.030	1,423.44	-29.85	-63.56	1,888,868.093	2,749,111.969	36.191096147	-107.745150493
1,523.00	18.56	246.610	1,513.36	-41.02	-88.52	1,888,856.922	2,749,087.003	36.191065522	-107.745235137
1,617.00	19.01	250.400	1,602.35	-52.10	-116.68	1,888,845.847	2,749,058.849	36.191035168	-107.745330585
1,711.00	18.71	251.500	1,691.31	-62.02	-145.40	1,888,835.927	2,749,030.129	36.191007990	-107.745427947
1,806.00	19.79	252.270	1,781.00	-71.75	-175.17	1,888,826.195	2,749,000.360	36.190981327	-107.745528864
1,900.00	22.79	252.600	1,868.57	-82.04	-207.71	1,888,815.902	2,748,967.823	36.190953134	-107.745639163
1,994.00 2,089.00	26.21 28.88	252.750 252.990	1,954.09 2,038.32	-93.65 -106.58	-244.91 -286.89	1,888,804.299	2,748,930.615	36.190921350 36.190885921	-107.745765296 -107.745907608
2,183.00	29.29	252.990	2,120.46	-120.07	-330.55	1,888,791.364 1,888,777.874	2,748,888.634 2,748,844.977	36.190848971	-107.746055602
2,277.00	29.45	252.960	2,202.38	-133.69	-374.59	1,888,764.253	2,748,800.933	36.190811662	-107.746204907
2,371.00	29.43	252.540	2,284.16	-147.44	-418.86	1,888,750.508	2,748,756.667	36.190774010	-107.746354968
2,466.00	30.00	253.370	2,366.58	-161.28	-464.03	1,888,736.662	2,748,711.501	36.190736087	-107.746508076
2,560.00	29.36	253.130	2,448.25	-174.70	-508.60	1,888,723.249	2,748,666.931	36.190699349	-107.746659162
2,654.00	28.15	252.500	2,530.66	-188.05	-551.80	1,888,709.894	2,748,623.730	36.190662766	-107.746805611
2,745.00	27.84	252.040	2,611.01	-201.06	-592.48	1,888,696.887	2,748,583.044	36.190627134	-107.746943534
2,796.00	28.05	251.246	2,656.06	-208.59	-615.17	1,888,689.359	2,748,560.360	36.190606509	-107.747020434
1000000111000000010000000	g @ 2796 MD				(5/3) 5/3/3/3	VIII	-11		
2,823.00	28.17	250.830	2,679.87	-212.72	-627.20	1,888,685.225	2,748,548.328	36.190595182	-107.747061222
2,887.00	28.82	250.190	2,736.12	-222.91	-655.98	1,888,675.036	2,748,519.545	36.190567263	-107.747158796
2,981.00	27.88	248.440	2,818.85	-238.67	-697.74	1,888,659.281	2,748,477.787	36.190524083	-107.747300360
3,075.00	28.83	251.100	2,901.57	-254.08	-739.63	1,888,643.862	2,748,435.902	36.190481828	-107.747442354
3,170.00	28.58	249.960	2,984.90	-269.29	-782.64	1,888,628.656	2,748,392.884	36.190440159	-107.747588186
3,263.00	27.49	249.060	3,066.98	-284.59	-823.59	1,888,613.361	2,748,351.938	36.190398244	-107.747726997
3,358.00	28.25	252.080	3,150.97	-299.34	-865.46	1,888,598.607	2,748,310.066	36.190357812	-107.747868944
3,452.00	26.80	251.520	3,234.33	-312.90	-906.73	1,888,585.044	2,748,268.798	36.190320654	-107.748008839
3,547.00	29.00	250.610	3,318.28	-327.34	-948.77	1,888,570.608	2,748,226.758	36.190281099	-107.748151354
3,641.00	26.57	248.200	3,401.44	-342.71	-989.79	1,888,555.234	2,748,185.738	36.190238962	-107.748290415
3,735.00	29.93	250.090	3,484.23	-358.51	-1,031.37	1,888,539.436	2,748,144.158	36.190195664	-107.748431377
3,830.00	30.31	250.660	3,566.40	-374.52	-1,076.27	1,888,523.426	2,748,099.255	36.190151791	-107.748583598
3,924.00	27.82	249.760	3,648.56	-389.97	-1,119.24	1,888,507.980	2,748,056.286	36.190109462	-107.748729262
4,018.00	28.17	251.250	3,731.56	-404.69	-1,160.83	1,888,493.259	2,748,014.695	36.190069122	-107.748870257
4,112.00	22.79	249.290	3,816.39	-418.27	-1,198.90	1,888,479.678	2,747,976.626	36.190031905	-107.748999310
4,143.00	21.08	249.090	3,845.15	-422.38	-1,209.73	1,888,475.565	2,747,965.802	36.190020632	-107.749036006
4,174.00	21.69	247.930	3,874.01	-426.52	-1,220.24	1,888,471.423	2,747,955.285	36.190009278	-107.749071659
4,206.00	23.79	247.390	3,903.52	-431.23	-1,231.68	1,888,466.719	2,747,943.846	36.189996383	-107.749110440
4,237.00	24.63	243.830	3,931.80	-436.48	-1,243.25	1,888,461.466	2,747,932.275	36.189981980	-107.749149667
4,268.00	25.17	235.570	3,959.92	-443.06	-1,254.49	1,888,454.888	2,747,921.037	36.189963936	-107.749187773
4,300.00	25.88	226.370	3,988.81	-451.73	-1,265.17	1,888,446.218	2,747,910.365	36.189940144	-107.749223965
4,331.00	26.70	217.090	4,016.62	-461.96	-1,274.27	1,888,435.990	2,747,901.264	36.189912068	-107.749254838
4,363.00	27.66	208.900	4,045.09	-474.20	-1,282.19	1,888,423.748	2,747,893.336	36.189878457	-107.749281742
4,394.00 4,426.00	28.93 29.99	202.630 197.150	4,072.39 4,100.26	-487.42 -502.21	-1,288.56 -1,293.90	1,888,410.524 1,888,395.735	2,747,886.972 2,747,881.634	36.189842146 36.189801531	-107.749303349 -107.749321481
4,457.00	31.01	192.280	4,126.98	-502.21 -517.42	-1,293.90	1,888,380.527	2,747,8877.650	36.189759761	-107.749321461
4,488.00	32.07	187.720	4,120.90	-533.38	-1,300.68	1,888,364.566	2,747,874.846	36.189715922	-107.749344577
4,520.00	33.03	183.110	4,180.38	-550.51	-1,300.88	1,888,347.436	2,747,874.040	36.189668869	-107.749350099
4,551.00	33.93	178.420	4,206.24	-567.60	-1,302.52	1,888,330.348	2,747,873.011	36.189621927	-107.749350894
4,583.00	34.57	174.740	4,232.69	-585.57	-1,301.44	1,888,312.378	2,747,874.090	36.189572559	-107.749347292
4,614.00	35.21	170.040	4,258.12	-603.13	-1,299.09	1,888,294.815	2,747,876.442	36.189524305	-107.749339371
4,646.00	35.83	165.300	4,284.17	-621.28	-1,295.11	1,888,276.666	2,747,880.416	36.189474437	-107.749325959
4,677.00	36.32	160.900	4,309.23	-638.74	-1,289.81	1,888,259.211	2,747,885.723	36.189426475	-107.749308024
4,709.00	37.02	155.330	4,334.91	-656.45	-1,282.68	1,888,241.497	2,747,892.847	36.189377795	-107.749283934
4,740.00	37.99	150.000	4,359.51	-673.20	-1,274.01	1,888,224.749	2,747,901.515	36.189331766	-107.749254607





TVD Reference:

MD Reference:



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Rodeo Unit 511 pad (511, 512 & 513)

Well: Rodeo Unit #513H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference:

Well Rodeo Unit #513H

RKB=6798+13 @ 6811.00ft (Ensign 145) RKB=6798+13 @ 6811.00ft (Ensign 145)

North Reference: Grid

Su	ırvey									
	Manager			Vantie-I			Marr			
	Measured		Marine and the same	Vertical			Мар	Мар		
	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
	4,771.00	38.45	145.010	4,383.87	-689.36	-1,263.72	1,888,208.586	2,747,911.815	36.189287341	-107.749219749
	4,803.00	39.63	141.230	4,408.72	-705.47	-1,251.62	1,888,192.476	2,747,923.913	36.189243055	-107.749178798
	4,834.00	41.86	139.170	4,432.21	-721.01	-1,238.66	1,888,176.939	2,747,936.868	36.189200342	-107.749134938
	4,866.00	44.09	137.190	4,455.62	-737.26	-1,224.11	1,888,160.690	2,747,951.417	36.189155672	-107.749085682
	4,897.00	46.81	135.770	4,477.37	-753.27	-1,208.90	1,888,144.677	2,747,966.632	36.189111647	-107.749034167
	4,929.00	49.73	134.770	4,498.67	-770.23	-1,192.09	1,888,127.717	2,747,983.440	36.189065015	-107.748977256
	4,960.00	53.03	133.990	4,518.01	-787.17	-1,174.78	1,888,110.782	2,748,000.751	36.189018452	-107.748918641
	4,991.00	57.21	133.860	4,535.74	-804.80	-1,156.47	1,888,093.145	2,748,019.064	36.188969956	-107.748856632
	5,023.00	61.38	134.500	4,552.07	-823.98	-1,136.74	1,888,073.972	2,748,038.788	36.188917240	-107.748789843
	5,054.00	62.52	134.280	4,566.65	-843.11	-1,117.19	1,888,054.834	2,748,058.339	36.188864619	-107.748723646
	5,085.00	63.93	134.040	4,580.62	-862.39	-1,097.34	1,888,035.554	2,748,078.193	36.188811606	-107.748656418
	5,092.00	64.68	134.069	4,583.65	-866.78	-1,092.80	1,888,031.168	2,748,082.727	36.188799546	-107.748641068
		@ 5092 MD 4		.,000.00	555.76	.,002.00	1,000,001.100	_,5,002.121	33.100100010	.07.1140041000
	5,117.00	67.38	134.170	4,593.80	-882.68	-1,076.41	1,888,015.266	2,748,099.125	36.188755823	-107.748585544
	5,117.00	70.15	134.170	4,605.00	-902.84	-1,076.41	1,887,995.107	2,748,119.718	36.188700394	-107.748515815
				4,005.00	-902.04	-1,055.61	1,007,993.107	2,740,119.710	30.100700394	-107.746313613
	/ E - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	147.92 MD 46		4 605 07	000 50	1.055.00	1 007 004 000	0.740.400.444	26 100000120	107 740540000
	5,149.00	70.25	134.620	4,605.37	-903.56	-1,055.09	1,887,994.393	2,748,120.441	36.188698432	-107.748513366
	5,180.00	73.62	135.210	4,614.98	-924.36	-1,034.22	1,887,973.586	2,748,141.308	36.188641224	-107.748442713
	5,212.00	76.50	135.040	4,623.23	-946.27	-1,012.41	1,887,951.679	2,748,163.120	36.188580989	-107.748368857
	5,243.00	79.58	135.340	4,629.65	-967.78	-991.04	1,887,930.166	2,748,184.491	36.188521838	-107.748296500
	5,274.00	82.75	135.950	4,634.41	-989.68	-969.63	1,887,908.265	2,748,205.902	36.188461625	-107.748224003
	5,306.00	86.80	136.780	4,637.33	-1,012.74	-947.64	1,887,885.206	2,748,227.887	36.188398225	-107.748149568
	5,337.00	88.97	136.950	4,638.47	-1,035.35	-926.46	1,887,862.601	2,748,249.067	36.188336075	-107.748077860
	5,431.00	91.27	136.460	4,638.27	-1,103.76	-862.01	1,887,794.190	2,748,313.523	36.188147987	-107.747859630
	5,525.00	89.96	135.190	4,637.26	-1,171.17	-796.51	1,887,726.778	2,748,379.020	36.187962642	-107.747637869
	5,619.00	90.25	133.970	4,637.09	-1,237.15	-729.56	1,887,660.801	2,748,445.972	36.187781233	-107.747411176
	5,714.00	92.23	133.010	4,635.04	-1,302.51	-660.66	1,887,595.439	2,748,514.873	36.187601507	-107.747177877
	5,809.00	89.53	134.660	4,633.58	-1,368.29	-592.15	1,887,529.659	2,748,583.383	36.187420637	-107.746945906
	5,903.00	89.39	134.700	4,634.46	-1,434.38	-525.31	1,887,463.566	2,748,650.218	36.187238909	-107.746719612
	5,997.00	89.74	134.070	4,635.18	-1,500.13	-458.13	1,887,397.818	2,748,717.393	36.187058127	-107.746492167
	6,092.00	90.52	136.810	4,634.96	-1,567.81	-391.48	1,887,330.136	2,748,784.044	36.186872034	-107.746266507
	6,186.00	92.95	137.590	4,632.11	-1,636.75	-327.65	1,887,261.203	2,748,847.877	36.186682510	-107.746050398
	6,281.00	89.91	136.270	4,629.74	-1,706.11	-262.81	1,887,191.836	2,748,912.723	36.186491790	-107.745830860
	6,375.00	89.72	135.320	4,630.05	-1,773.50	-197.27	1,887,124.453	2,748,978.261	36.186306521	-107.745608971
	6,470.00	91.29	134.970	4,629.21	-1,840.84	-130.27	1,887,057.113	2,749,045.261	36.186121364	-107.745382129
	6,564.00	88.96	136.120	4,629.01	-1,907.93	-64.44	1,886,990.022	2,749,111.088	36.185936893	-107.745159262
	6,658.00	91.19	137.060	4,628.88	-1,976.21	0.15	1,886,921.741	2,749,175.681	36.185749155	-107.744940581
	6,751.00	88.21	136.810	4,629.37	-2,044.15	63.65	1,886,853.806	2,749,239.175	36.185562371	-107.744725623
	6,845.00	87.61	136.500	4,632.80	-2,112.46	128.13	1,886,785.492	2,749,303.653	36.185374543	-107.744507337
	6,939.00	90.19	136.770	4,634.60	-2,180.78	192.65	1,886,717.173	2,749,368.179	36.185186701	-107.744288884
	7,034.00	89.72	137.260	4,634.68	-2,250.27	257.42	1,886,647.678	2,749,432.951	36.184995628	-107.744069608
	7,129.00	88.90	138.630	4,635.82	-2,320.80	321.05	1,886,577.147	2,749,496.579	36.184801713	-107.743854208
	7,223.00	89.99	136.820	4,636.73	-2,390.35	384.28	1,886,507.602	2,749,559.805	36.184610504	-107.743640169
	7,317.00	90.94	135.780	4,635.97	-2,458.30	449.22	1,886,439.647	2,749,624.744	36.184423659	-107.743420323
	7,412.00	90.55	136.270	4,634.73	-2,526.66	515.17	1,886,371.287	2,749,690.701	36.184235699	-107.743197030
	7,506.00	90.86	133.650	4,633.58	-2,593.08	581.68	1,886,304.877	2,749,757.204	36.184053092	-107.742971879
	7,601.00	89.80	134.070	4,633.03	-2,658.90	650.17	1,886,239.054	2,749,825.700	36.183872094	-107.742739976
	7,695.00	88.96	134.630	4,634.05	-2,724.60	717.39	1,886,173.349	2,749,892.913	36.183691423	-107.742512421
	7,789.00	91.40	133.780	4,633.75	-2,790.14	784.76	1,886,107.815	2,749,960.291	36.183511222	-107.742284308
	7,883.00	90.85	134.410	4,631.91	-2,855.53	852.26	1,886,042.419	2,750,027.787	36.183331397	-107.742055795
	7,978.00	89.76	134.750	4,631.40	-2,922.21	919.92	1,885,975.740	2,750,095.450	36.183148048	-107.741826720
	8,072.00	90.93	134.220	4,630.83	-2,988.08	986.98	1,885,909.875	2,750,162.510	36.182966935	-107.741599687
	8,167.00	90.00	134.260	4,630.06	-3,054.35	1,055.04	1,885,843.600	2,750,230.567	36.182784693	-107.741369278
	8,261.00	91.32	134.540	4,628.98	-3,120.12	1,122.20	1,885,777.837	2,750,297.721	36.182603862	-107.741141928
1	8,355.00	90.69	134.990	4,627.33	-3,186.30	1,188.93	1,885,711.653	2,750,364.451	36.182421873	-107.740916021



Survey Report - Geographic



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Rodeo Unit 511 pad (511, 512 & 513)

Well: Rodeo Unit #513H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference:

Well Rodeo Unit #513H

 TVD Reference:
 RKB=6798+13 @ 6811.00ft (Ensign 145)

 MD Reference:
 RKB=6798+13 @ 6811.00ft (Ensign 145)

North Reference: Grid

8,543.00 91.05 134,940 4,628.05 -3.319.53 1,321.65 1,885,671.231 2,750.654.199 36.182065577 -107.74023 8,732.00 91.33 186.059 4,622.12 -3.455.85 1,454.43 1,885,141.213 2,750.654.199 36.181690166 -107.74023 8,732.00 90.82 135.020 4,619.05 -3.569.02 1,585.45 1,885.44 3,1858,746.07 2,750.684.809 53 61.81890166 -107.74023 9,190.00 90.82 135.020 4,619.05 -3.569.02 1,585.45 1,885.376.087 2,750.684.809 53 61.81391761 -107.73879 9,195.00 90.82 135.070 4,618.43 -3.256.75 1,717.66 1,885,747.882 2,750.827.288 36.181391761 -107.73879 9,195.00 90.72 133.770 4,618.43 -3.256.75 1,717.66 1,885,147.482 2,750.980.188 36.18054076 -107.73819 9,298.00 90.73 133.770 4,618.04 3,732.67 1,717.66 1,885,147.482 2,750.980.188 36.18054076 -107.73819 9,298.00 90.33 133.990 4,617.19 -3.855.66 1,852.91 1,885.04.129 2,757.198.778 30 8,730 135.100 4,618.01 3,885.66 1,882.91 1,885.04.294 2,757.108.737 36.18054071 1-07.73884 9,487.00 89.70 135.100 4,618.01 3,886.17 1,920.26 1,884.976.714 2,757.085.780 38.1800.0977 135.100 4,618.01 3,489.01										
Pepth	Survey									
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8,484,00 89,36 135,20 4,627,29 -3,252,93 1,255,23 1,855,45,025 2,750,430,754 36,182,238663 -107,74068 6,633,00 91,05 134,540 4,626,35 -3,316,55 1,358,67 1,855,74 (26) 2,750,440,768 93 36,1816070766 -107,74068 6,638,00 91,74 135,130 4,624,64 1,452,131 1,351,130 1,624,64 1,452,14 1,453,130 1,452,46 1,452,42 1,345,86 1,454,43 1,351,30 1,452,46 1,452,42 1,345,86 1,454,43 1,351,30 1,452,46 1,452,42 1,345,86 1,454,43 1,351,30 1,452,46 1,452,42 1,345,86 1,454,43 1,351,45 1,454,43 1,	And the Control of th									
8,449,00 99,36 135,290 4,827,29 3,252,93 1,255,23 1,885,045,025 2,750,497,066 36.182238663 -107,74069 8,643,00 91,74 135,100 6,426,265 3,316,53 1,321,65 1,885,576,247 2,750,641,99 36.18205857 -107,74068 8,738,00 91,74 135,100 6,426,464 3,386,77 1,386,77 1,386,87 1,474,17 2,750,624,99 55 36.181687666 -107,74001 8,826,50 90 79 133 135,000 4,221 2,345,88 1,454,43 1,885,346,170 2,750,624,99 55 36.181686166 -107,74001 8,826,50 90 90 78 135,700 4,619,00 90 90 13 135,770 4,618,00 3,321,87 1,519,22 1,885,376,007 2,750,624,99 57 36.181491761 -107,78578 9,1015,00 90 13 135,770 4,618,43 3,122,67 1,747,66 1,885,746,28 2,750,827,286 36.181491761 -107,78578 9,1015,00 90 37 2,750,770,770 4,818,43 3,122,67 1,747,66 1,885,174,48 2,750,827,286 36,180,944276 -107,7814 9,109,00 99 68 135,670 4,818,43 3,122,67 1,747,66 1,885,174,48 2,750,893,188 36.180944276 -107,7814 9,204,00 90,72 133,770 4,618,00 3,790,51 1,745,16 1,885,174,48 2,750,960,886 9,208,00 90,72 133,770 4,618,00 3,790,51 1,745,16 1,885,174,48 2,750,960,886 9,208,00 90,73 13,440 4,616,77 3,321,24 1,920,26 1,884,976,714 2,751,063,780 36.18069131 1-07,78848 9,382,00 90,18 134,490 4,616,77 3,321,24 1,920,26 1,884,976,714 2,751,085,780 36.18060977 1-07,73844 9,487,00 99 70 135,100 4,616,31 4,050,40 1,920,26 1,884,767,14 2,751,085,780 36.18060977 1-07,73844 9,487,00 99 2,800,40										
6,643,00 91,05 134,940 4,628,08 3,319,53 1,321,66 1,388,677,126 2,750,694,199 3,181670766 1,077,74028 8,732,00 91,33 135,059 4,622,12 3,455,85 1,454,43 1,858,541,231 2,750,693,995 36,181686166 -107,74029 8,921,00 90,92 135,020 4,619,05 3,560,02 1,595,45 4,1868,376,087 2,750,693,995 36,181391761 -107,73879 9,109,00 90,86 135,670 4,618,43 3,251,876 1,765,760 1,888,541,239 2,750,893,978 36,181311761 -107,73879 9,109,00 90,86 135,670 4,618,43 3,272,677 1,717,66 1,888,174,286 2,750,990,788 36,181265571 -107,738194 9,294,00 90,33 133,3990 4,617,19 3,385,66 1,882,91 1,888,107,446 2,751,095,780 36,180,691311 -107,73849 9,582,00 90,38 133,709 4,616,43 -4,055,76 1,882,409 2,751,085,780 36,180,691311 -107,73844 9,582,0	12.000	(7)	(*)	(11)	(π)	(π)	(usit)	(usit)	Latitude	Longitude
8,538.00 91.74 135.130 4,624.64 3,386.72 1,386.67 1,885.511.231 2,750.664.199 36.18167766 107,74023 6,826.00 90.79 136.860 4,620.38 3,521.87 1,519.28 1,885.476.087 2,750.684.199 36.18169166 107,73076 8,921.00 90.82 138.00 4,620.38 3,521.87 1,519.28 1,885.376.087 2,750.684.809 36.18149166 107,73077 9,015.00 90.82 1385.00 4,616.55 3,580.00 1,885.47 1,185.50 2,750.672.97 2,750.694.809 36.18149166 107,73077 9,015.00 90.82 1385.67 4,616.43 3,722.67 1,177.66 1,885.307.932 2,750.769.17 1,175.51 1,885.307.932 2,750.769.17 1,175.51 1,885.307.932 2,750.893.89 1,990.00 86.86 36.18076475 107,73924 9,204.00 90.72 133.770 4,616.09 3,790.51 1,785.16 1,885.174.28 2,750.893.89 1,990.00 90.38 133.990 4,617.19 3,855.66 6,185.29 1 1,885.174.28 2,750.893.89 1,990.00 90.38 133.490 4,616.77 3,921.24 1,920.26 1,884.976.74 2,751.066.760 36.1809.0097.7 107,73889 9,382.00 90.38 133.50 4,616.81 3,386.17 1,987.67 1,987.67 1,275.74 2,751.066.760 36.1800.0097.7 107,73844 9,487.00 86.70 90.28 134.370 4,616.43 4,105.04 2,055.15 1,884.942.91 2,751.230.677 36.1800.300.55 107,73798 9,771.00 91.29 134.810 4,614.18 4,187.84 2,189.61 1,884.710.17 2,751.566.132 36.1906.913.7 107,73795 9,771.00 91.29 134.810 4,614.18 4,187.84 2,189.61 1,884.710.17 2,751.566.132 36.1796.876 107,73795 9,966.00 90.28 135.00 4,614.18 4,187.84 2,189.61 1,884.710.17 2,751.566.132 36.1796.8767 107,73775 9,771.00 91.05 1,00 8.80 0 135.00 4,614.18 4,187.84 2,189.61 1,884.76 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,0		89.36	135.290	4,627.29	-3,252.93	1,255.23	1,885,645.025	2,750,430.754	36.182238663	-107.740691558
8,732.00 91.33 156.00 46.22.12 3,453.85 1,454.43 1,885.474.107 2,750.629.955 36,181686196 1077,74001 8,826.00 90.79 136.860 46.203 83 3,521.87 1,519.28 1,885.376.087 2,750.692.955 36,181686196 1077,73078 8,921.00 90.82 135.020 4,619.05 3,590.02 1,585.45 1,885.307.932 2,750.760.971 36,181911761 1077,73957 9,015.00 90.13 135.070 4,618.43 3,723.67 1,717.66 1,885.471.288 2,750.893.188 36,18044276 1077,73912 9,204.00 90.72 133.770 4,618.09 3,723.67 1,717.66 1,885.174.288 2,750.893.188 36,18044276 1077,73912 9,208.00 90.38 133.990 4,617.19 3,855.66 1,852.91 1,885.01 2,750.983.188 36,180404276 1077,73912 9,028.00 90.38 133.990 4,617.19 3,855.66 1,852.91 1,885.01 2,750.983.188 36,18040276 1077,73912 9,487.00 80.78 135.100 4,616.81 3,898.17 1,897.67 1,884.090.780 2,751.163.104 36,1804.001691 1077,73928 9,487.00 80.78 134.870 4,616.41 4,120.86 2,122.15 1,884.776.194 2,751.095.767 36,1804.0016921 1077,73728 9,865.00 90.28 134.700 4,616.44 4,120.86 2,122.15 1,884.776.294 2,751.023.677 36,1702.077.73728 9,865.00 90.22 135.000 4,616.15 4,245.24 2,256.14 1,880.24 2,751.023.677 36,1702.077.73728 9,865.00 90.22 135.000 4,616.15 4,245.24 2,256.14 1,880.47 1,170.177 2,751.235.671 36,1702.959.677 10,054.00 90.28 135.000 4,616.15 4,245.24 2,256.14 1,880.47 1,170.177 2,751.235.671 36,1702.959.677 10,054.00 90.25 135.000 4,616.15 4,245.24 2,256.14 1,880.47 1,170.177 2,751.235.571 36,1774.655.00 90.79 136.10 4,616.25 4,345.59 2,256.10 1,884.705.31 2,751.436.56 9 36,1794.6590.6 1077,73707 10,054.00 90.79 136.500 4,616.15 4,245.25 2,256.14 1,880.47 1,170.177 2,751.25 3,051.10 4,170.20 90.79 136.500 4,616.15 4,245.25 2,256.14 1,880.47 1,170.177 2,751.25 3,051.10 4,170.20 90.79 136.500 4,616.15 4,245.25 5,251.10 1,884.75 5,051.25 1,251.25				4,626.95			1,885,578.426	2,750,497.086		-107.740467003
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10,337.00 90.33 135.700 4,608.21 4,589.96 2,587.85 1,884.307.999 2,751,763.371 36,178562133 -107.73518 10,526.00 90.99 135.070 4,608.13 -4,658.26 2,653.88 1,884.239.697 2,751,829.399 36,178374318 -107.73518 10,621.00 89.86 135.780 4,606.81 -4,725.48 2,719.85 1,884.172.476 2,751,895.101 36,178199471 -107.73553 10,621.00 91.96 135.670 4,606.31 -4,860.44 2,851.86 1,884.037.514 2,752,027.385 36,177613550 -107.73550 10,904.00 90.97 136.580 4,603.33 -4,928.17 2,916.98 1,883.996.788 2,752,092.505 36,177632120 -107.73566 10,904.00 90.97 136.580 4,603.33 -4,928.17 2,916.98 1,883.996.788 2,752,092.505 36,177632120 -107.73566 10,904.00 90.97 136.580 4,600.47 -5,065.80 3,046.47 1,883.82.159 2,752,221.992 36,177653678 -107.73462 11,093.00 90.84 135.330 4,599.90 -5,134.08 3,112.51 1,883,763.878 2,752,288.035 36,177065915 -107.73462 11,187.00 90.11 135.080 4,599.78 -5,200.78 3,178.74 1,883.697.175 2,752,248.544 36,1766892491 -107.73478 11,262.00 91.46 134.630 4,595.82 -5,267.78 3,246.08 1,883.490.178 2,752,248.544 36,176689254 -107.73372 11,565.00 90.79 134.100 4,594.50 -5,465.34 3,488.66 1,883.498.641 2,752,565.865 36,176689254 -107.73326 11,659.00 89.17 134.830 4,594.54 -5,530.38 3,516.53 1,883.301.657 2,752,624.185 36,176593.032 -107.73326 11,689.00 91.14 134.80 90.17 134.830 4,594.54 -5,530.38 3,516.53 1,883.301.657 2,752,624.185 36,175693.032 -107.73326 11,689.00 91.14 134.20 4,594.54 -5,560.33 3,561.62 1,883.235.622 2,752,287.340 36,175693.032 -107.73326 11,689.00 91.14 134.20 4,594.54 -5,530.38 3,516.53 1,883.301.657 2,752,604.48 36,175694303 -107.73326 11,689.00 91.14 134.20 4,594.50 -5,666.33 3,651.62 1,883.235.622 2,752,287.340 36,175693.03 -107.73326 12,030.00 91.67 34,480.40 4,594.54 -5										-107.736406310
10,526.00 90.39 135.070 4,608.01 4,725.48 2,719.58 1,884,172.476 2,751,895.101 36.178189471 -107.73573 (10,621.00 89.86 135.780 4,607.80 4,793.15 2,786.25 1,884,104.807.514 2,752,027.385 36.177818350 -107.73552 (10,809.00 91.67 136.580 4,603.33 4,828.17 2,916.98 1,883,969.788 2,752,092.591 36.177632120 -107.73568 (10,904.00 90.97 136.590 4,601.14 4,997.34 2,982.06 1,883,969.788 2,752,092.591 36.177632120 -107.73482 (10,904.00 90.97 136.590 4,601.14 4,997.34 2,982.06 1,883,905.18 2,752,291.992 36.177635378 -107.734842 (10,904.00 90.84 135.330 4,599.90 5,134.08 3,112.51 1,883,63.2159 2,752,221.992 36.177653678 -107.73448 (11,882.00 91.46 134.630 4,599.12 5,200.78 3,178.74 1,883,69.7175 2,752,321.599 36.1766882491 -107.73418 (11,282.00 91.46 134.630 4,599.12 5,200.78 3,178.74 1,883,69.178 2,752,421.599 36.1766882491 -107.73348 (11,376.00 90.84 134.520 4,595.93 5,333.74 3,313.02 1,883,563.178 2,752,481.599 36.17668686 -107.73349 11,376.00 90.05 133.990 4,595.20 5,399.32 3,380.36 1,883,664.219 2,752,481.599 36.17668686 -107.73349 11,565.00 90.79 134.100 4,594.50 -5,465.34 3,448.66 1,883,432.615 2,752,624.185 36.176154955 -107.73346 11,659.00 89.17 134.830 4,594.54 -5,560.38 3,516.53 1,883,367.580 2,752,692.050 36.175976104 -107.73326 11,659.00 89.17 134.830 4,594.54 -5,560.33 3,661.82 1,883,307.580 2,752,692.050 36.175976104 -107.73326 11,848.00 90.17 134.830 4,594.54 -5,560.33 3,651.82 1,883,307.580 2,752,692.050 36.175976104 -107.73267 11,943.00 92.10 134.180 4,594.59 -5,728.91 3,719.56 1,883,169.047 2,752,895.076 36.1756430132 -107.73257 11,943.00 92.10 134.180 4,594.59 -5,728.91 3,719.56 1,883,169.047 2,752,895.076 36.1756430132 -107.73257 11,943.00 92.10 134.180 4,594.59 -5,728.91 3,719.56 1,883,169.047 2,752,895.076 36.1756430132 -107.73257 11,943.00 92.10 134.180 4,594.59 -5,728.91 3,719.56 1,883,205.80 2,753,209.579 36.1756430132 -107.73257 11,943.00 92.10 134.180 4,594.59 -5,926.70 3,986.57 1,882,905.19 1,2753,164.90 36.1756430132 -107.73267 12,200.00 90.68 134.430 4,594.59 -5,926.70 3,986.57 1,882,905.19 1	10,337.00	90.33	135.700						36.178562133	-107.736180366
10,621.00	10,432.00	89.76	136.240	4,608.13	-4,658.26	2,653.88	1,884,239.697	2,751,829.399	36.178374318	-107.735956867
10,715.00 91.96 135.670 4,606.31 -4,860.44 2,851.86 1,884,037.514 2,752,027.385 36.177818350 -107.73528 10,809.00 91.67 136.580 4,603.33 -4,928.17 2,916.98 1,883,969.788 2,752,092.501 36.177632120 -107.73548 10,998.00 89.85 136.580 4,600.47 -5,065.80 3,046.47 1,883,890.618 2,752,157.582 36.177441920 -107.73448 10,998.00 99.84 135.330 4,599.90 -5,134.08 3,112.51 1,883,693.788 2,752,288.035 36.17765915 -107.73440 11,187.00 90.11 135.080 4,599.12 -5,200.78 3,178.74 1,883,691.77 2,752,288.035 36.176698254 -107.73448 11,282.00 91.46 134.630 4,599.82 -5,267.78 3,246.08 1,883,630.178 2,752,288.035 36.176698254 -107.73348 11,376.00 90.84 134.520 4,599.53 -5,333.74 3,313.02 1,883,640.17 2,752,488.544 36.176618686 -107.73372 11,470.00 90.05 133.960 4,599.50 -5,399.32 3,380.36 1,883,498.641 2,752,555.885 36.176336528 -107.73349 11,565.00 90.79 134.100 4,594.50 -5,466.34 3,448.66 1,883,432.615 2,752,624.185 36.176154955 -107.73326 11,659.00 89.17 133.460 4,594.50 -5,590.38 3,516.53 1,883,367.580 2,752,692.050 36.175976104 -107.73303 11,754.00 90.86 134.430 4,594.51 -5,596.30 3,584.93 1,883,301.657 2,752,760.448 36.175794810 -107.73260 11,848.00 90.17 134.830 4,599.57 -5,662.33 3,584.93 1,883,301.657 2,752,760.448 36.175613216 -107.73272 11,943.00 92.10 134.180 4,591.79 -5,728.91 3,719.56 1,883,169.047 2,752,995.076 36.175913216 -107.73273 12,235.00 99.79 134.180 4,594.50 -5,752.57.00 3,884.93 1,883,307.855 2,753,029.579 36.175069293 -107.73189 12,225.00 90.60 136.740 4,578.48 6-1,28.11 4,119.03 1,882,972.254 2,753,096.552 36.174888943 -107.73166 12,225.00 90.60 136.740 4,578.48 6-1,28.11 4,119.03 1,882,702.54 2,753,399.529 36.17406293 -107.73189 12,200.00 90.60 136.740 4,578.48 6-1,28.11 4,119.03 1,882,702.54 2,753,096.552 36.174888943 -107.73160 12,200.00 90.60 136.740 4,578.48 6-1,28.11 4,119.03 1,882,702.54 2,753,399.529 36.17406293 -107.73189 12,200.00 90.60 136.740 4,578.48 6-1,28.11 4,119.03 1,882,702.54 2,753,399.529 36.17406293 -107.73161 12,697.00 89.94 133.970 4,582.67 6,695.56 4,585.60 4,580.50 1,882,399.50 1,88	10,526.00	90.39	135.070	4,608.01	-4,725.48	2,719.58	1,884,172.476	2,751,895.101	36.178189471	-107.735734467
10,809.00 91.67 136.580 4,603.33 -4,928.17 2,916.98 1,883,969.788 2,752,092.501 36.177632120 -107.73506 10,904.00 90.97 136.910 4,601.14 -4,997.34 2,982.06 1,883,906.18 2,752,157.582 36.177441920 -107.73462 11,093.00 90.84 135.330 4,599.90 -5,134.08 3,112.51 1,883,832.159 2,752,221.992 36.177253678 -107.73462 11,093.00 90.84 135.330 4,599.12 -5,200.78 3,178.74 1,883,697.175 2,752,288.035 36.177065915 -107.73440 11,187.00 90.11 135.080 4,599.12 -5,200.78 3,178.74 1,883,697.175 2,752,288.035 36.177065915 -107.73440 11,282.00 91.46 134.630 4,597.82 -5,267.78 3,246.08 1,883,697.175 2,752,245.99 36.176689254 -107.73395 11,376.00 90.84 134.520 4,595.93 -5,333.74 3,313.02 1,883,691.175 2,752,491.599 36.176698254 -107.73395 11,470.00 90.05 133.960 4,595.20 -5,399.32 3,380.36 1,883,498.641 2,752,555.885 36.176336528 -107.73326 11,655.00 90.79 134.100 4,594.50 -5,465.34 3,448.66 1,883,498.641 2,752,555.885 36.176336528 -107.73326 11,659.00 89.17 133.460 4,594.54 -5,590.33 3,516.53 1,883,301.675 2,752,692.050 36.1765976104 -107.73260 11,754.00 90.86 134.430 4,594.54 -5,590.33 3,651.82 1,883,301.675 2,752,752,491.80 36.176513216 -107.73226 11,943.00 92.10 134.180 4,591.79 -5,762.91 3,719.56 1,883,104.184 2,752,961.648 36.175613216 -107.73247 12,036.00 91.78 134.330 4,588.64 -5,793.77 3,786.13 1,883,104.184 2,752,961.648 36.175613216 -107.73212 12,131.00 91.65 134.320 4,585.79 -5,860.12 3,854.06 1,883,307.835 2,753,098.852 36.174888943 -107.73168 12,220.00 90.76 135.630 4,580.33 -5,992.77 3,986.57 1,882,905.191 2,753,164.090 36.174404520 -107.73143 12,260.00 89.14 136.950 4,578.69 -6,197.41 4,184.01 1,882,700.544 2,753,359.529 36.174141767 -107.73077 12,697.00 88.81 137.900 4,582.67 -6,399.55 4,383.25 1,882,498.405 2,753,595.68 36.173696923 -107.73143 12,580.00 89.14 136.950 4,578.69 -6,197.41 4,184.01 1,882,700.544 2,753,359.529 36.174141767 -107.73077 12,697.00 88.81 137.900 4,584.26 -6,463.60 4,452.02 1,882,498.405 2,753,555.88 36.173046023 -107.73981 12,690.00 89.44 133.970 4,584.26 -6,463.60 4,452.02 1,882,498.405 2,75	10,621.00	89.86	135.780	4,607.80	-4,793.15	2,786.25	1,884,104.805	2,751,961.775	36.178003388	-107.735508777
10,904.00 90.97 136.910 4,601.14 -4,997.34 2,982.06 1,883,900.618 2,752,157.582 36.177441920 -107.73484 10,998.00 89.85 136.580 4,600.47 -5,065.80 3,046.47 1,883,832.159 2,752,221.992 36.17725678 -107.73460 11,187.00 90.11 135.080 4,599.90 -5,134.08 3,112.51 1,883,763.878 2,752,288.035 36.177065915 -107.73440 11,187.00 90.11 135.080 4,599.12 -5,260.78 3,178.74 1,883,697.175 2,752,354.262 36.176882491 -107.73418 11,282.00 91.46 134.630 4,599.82 -5,267.78 3,246.08 1,883,691.178 2,752,421.599 36.176682491 -107.73348 11,376.00 90.84 134.520 4,595.93 -5,333.74 3,313.02 1,883,694.178 2,752,421.599 36.176698254 -107.73349 11,470.00 90.05 133.960 4,595.20 -5,399.32 3,380.36 1,883,498.641 2,752,555.885 36.176336528 -107.73349 11,565.00 90.79 134.100 4,594.50 -5,465.34 3,448.66 1,883,432.615 2,752,624.185 36.176154955 -107.73326 11,659.00 89.17 133.460 4,594.50 -5,695.30 3,516.53 1,883,307.580 2,752,692.050 36.175976104 -107.73326 11,848.00 90.17 134.830 4,593.67 -5,662.33 3,561.82 1,883,307.580 2,752,892.050 36.175976104 -107.73280 11,848.00 90.17 134.830 4,593.67 -5,662.33 3,561.82 1,883,307.580 2,752,895.076 36.175613216 -107.73257 11,943.00 92.10 134.180 4,591.79 -5,728.91 3,719.56 1,883,169.047 2,752,961.648 36.175613216 -107.73257 12,036.00 91.78 134.320 4,585.79 -5,860.12 3,854.06 1,883,169.047 2,752,961.648 36.175631316 -107.73254 12,236.00 90.76 135.630 4,580.33 -5,992.77 3,786.13 1,882,907.254 2,753,096.852 36.174888943 -107.73166 12,225.00 92.11 134.220 4,582.71 -5,925.70 3,921.33 1,882,972.254 2,753,096.852 36.174888943 -107.73166 12,225.00 90.60 136.740 4,578.48 -6,128.11 4,119.03 1,882,603.161 2,753,244.553 36.17450520 -107.73166 12,225.00 90.60 136.740 4,578.48 -6,128.11 4,119.03 1,882,603.161 2,753,245.553 36.174302322 -107.73099 12,2697.00 88.88 137.400 4,584.26 -6,128.11 4,119.03 1,882,603.161 2,753,245.553 36.174302332 -107.73099 12,2697.00 88.88 137.400 4,584.26 -6,636.60 4,452.02 1,882,302.102 2,753,625.58 36.173046023 -107.73090 12,887.00 89.92 134.250 4,584.26 -6,636.60 4,452.02 1,882,302.102 2,753	10,715.00	91.96	135.670	4,606.31	-4,860.44	2,851.86	1,884,037.514	2,752,027.385	36.177818350	-107.735286694
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11,093.00 90.84 135.330 4,599.90 -5,134.08 3,112.51 1,883,693.878 2,752,288.035 36.177065915 -107.73440 11,187.00 90.11 135.080 4,599.12 -5,200.78 3,178.74 1,883,697.175 2,752,481.599 36.176689254 -107.73418 11,376.00 90.84 134.520 4,599.93 -5,333.74 3,313.02 1,883,691.79 2,752,481.599 36.176698254 -107.73395 11,470.00 90.05 133.960 4,595.20 -5,399.32 3,380.36 1,883,498.641 2,752,624.885 36.17663955 -107.73349 11,656.00 90.79 134.100 4,594.54 -5,530.38 3,448.66 1,883,498.641 2,752,624.185 36.176154955 -107.73326 11,659.00 89.17 133.460 4,594.54 -5,530.38 3,516.53 1,883,367.580 2,752,624.185 36.175978410 -107.73260 11,848.00 90.17 134.830 4,593.67 -5,662.33 3,651.82 1,883,169.48 2,752,862.760.448 36.175613216 -107.73216	10,904.00	90.97	136.910	4,601.14	-4,997.34	2,982.06	1,883,900.618	2,752,157.582	36.177441920	-107.734846001
11,187.00 90.11 135.080 4,599.12 -5,200.78 3,178.74 1,883,697.175 2,752,354.262 36.176882491 -107.73418 11,282.00 91.46 134.630 4,597.82 -5,267.78 3,246.08 1,883,630.178 2,752,421.599 36.176698254 -107.73395 11,376.00 90.84 134.520 4,595.93 -5,333.74 3,313.02 1,883,564.219 2,752,488.544 36.176516868 -107.73349 11,470.00 90.05 133.960 4,594.50 -5,465.34 3,448.66 1,883,498.641 2,752,655.885 36.176516955 -107.73326 11,659.00 89.17 133.460 4,594.54 -5,530.38 3,516.53 1,883,301.657 2,752,692.050 36.175976104 -107.73326 11,689.00 89.17 134.830 4,594.51 -5,596.30 3,581.652 1,883,301.657 2,752,760.448 36.175618216 -107.73287 11,943.00 90.17 134.830 4,594.51 -5,966.233 3,651.82 1,883,169.047 2,752,895.076 36.175613216 -107.73257										-107.734627989
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11,659.00 89.17 133.460 4,594.54 -5,530.38 3,516.53 1,883,367.580 2,752,692.050 36.175976104 -107.73303 11,754.00 90.86 134.430 4,594.51 -5,596.30 3,584.93 1,883,301.657 2,752,760.448 36.175794810 -107.73280 11,848.00 90.17 134.830 4,593.67 -5,662.33 3,651.82 1,883,169.047 2,752,895.076 36.175613216 -107.73257 11,943.00 92.10 134.180 4,591.79 -5,728.91 3,719.56 1,883,169.047 2,752,895.076 36.175430132 -107.73224 12,036.00 91.78 134.330 4,588.64 -5,793.77 3,786.13 1,883,104.184 2,752,961.648 36.17569293 -107.73212 12,131.00 91.65 134.320 4,585.79 -5,860.12 3,854.06 1,883,037.835 2,753,096.852 36.175069293 -107.73189 12,225.00 92.11 134.220 4,586.31 -6,992.77 3,988.57 1,882,905.191 2,753,164.090 36.174704520 -107.73143 12,414.00 90.45 135.920 4,578.48 -6,128.11 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-107.733497790</td>										-107.733497790
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12,036.00 91.78 134.330 4,588.64 -5,793.77 3,786.13 1,883,104.184 2,752,961.648 36.175251756 -107.73212 12,131.00 91.65 134.320 4,585.79 -5,860.12 3,854.06 1,883,037.835 2,753,029.579 36.175069293 -107.73189 12,225.00 92.11 134.220 4,582.71 -5,925.70 3,921.33 1,882,972.254 2,753,096.852 36.174888943 -107.73166 12,320.00 90.76 135.630 4,580.33 -5,992.77 3,988.57 1,882,905.191 2,753,164.090 36.174704520 -107.73143 12,414.00 90.45 135.920 4,579.34 -6,060.12 4,054.13 1,882,837.835 2,753,229.649 36.174519294 -107.73121 12,508.00 90.60 136.740 4,578.48 -6,128.11 4,119.03 1,882,769.845 2,753,294.553 36.174332332 -107.73099 12,697.00 88.88 137.400 4,580.32 -6,266.35 4,247.90 1,882,631.612 2,753,423.416 36.173952217 -107.73033 12,887.00 88.12 131.950 4,582.67 -6,399.55 </td <td></td>										
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12,508.00 90.60 136.740 4,578.48 -6,128.11 4,119.03 1,882,769.845 2,753,294.553 36.17432332 -107.73099 12,603.00 89.14 136.950 4,578.69 -6,197.41 4,184.01 1,882,700.544 2,753,359.529 36.174141767 -107.73077 12,697.00 88.88 137.400 4,580.32 -6,266.35 4,247.90 1,882,631.612 2,753,423.416 36.173952217 -107.73056 12,792.00 90.08 134.410 4,581.18 -6,334.56 4,313.99 1,882,563.397 2,753,489.511 36.173764629 -107.73033 12,887.00 88.12 131.950 4,582.67 -6,399.55 4,383.25 1,882,498.405 2,753,558.768 36.173585887 -107.73010 12,981.00 89.94 133.970 4,584.26 -6,463.60 4,452.02 1,882,434.360 2,753,627.543 36.173409747 -107.72987 13,076.00 89.92 134.250 4,584.38 -6,529.72 4,520.24 1,882,368.237 2,753,695.753 36.173046023 -107.72941 13,170.00 91.44 135.190 4,583.26 -6,595.86 <td>Contract of the Contract of th</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-107.731217187</td>	Contract of the Contract of th									-107.731217187
12,603.00 89.14 136.950 4,578.69 -6,197.41 4,184.01 1,882,700.544 2,753,359.529 36.174141767 -107.73077 12,697.00 88.88 137.400 4,580.32 -6,266.35 4,247.90 1,882,631.612 2,753,423.416 36.173952217 -107.73056 12,792.00 90.08 134.410 4,581.18 -6,334.56 4,313.99 1,882,563.397 2,753,489.511 36.173764629 -107.73033 12,887.00 88.12 131.950 4,582.67 -6,399.55 4,383.25 1,882,498.405 2,753,558.768 36.173585887 -107.73010 12,981.00 89.94 133.970 4,584.26 -6,463.60 4,452.02 1,882,434.360 2,753,627.543 36.173409747 -107.72987 13,076.00 89.92 134.250 4,584.38 -6,529.72 4,520.24 1,882,368.237 2,753,695.753 36.173227899 -107.72963 13,170.00 91.44 135.190 4,583.26 -6,595.86 4,587.02 1,882,302.102 2,753,762.538 36.173046023 -107.72941										-107.730997517
12,697.00 88.88 137.400 4,580.32 -6,266.35 4,247.90 1,882,631.612 2,753,423.416 36.173952217 -107.73056 12,792.00 90.08 134.410 4,581.18 -6,334.56 4,313.99 1,882,563.397 2,753,489.511 36.173764629 -107.73033 12,887.00 88.12 131.950 4,582.67 -6,399.55 4,383.25 1,882,498.405 2,753,558.768 36.173585887 -107.73010 12,981.00 89.94 133.970 4,584.26 -6,463.60 4,452.02 1,882,434.360 2,753,627.543 36.173409747 -107.72987 13,076.00 89.92 134.250 4,584.38 -6,529.72 4,520.24 1,882,368.237 2,753,695.753 36.173227899 -107.72963 13,170.00 91.44 135.190 4,583.26 -6,595.86 4,587.02 1,882,302.102 2,753,762.538 36.173046023 -107.72941										-107.730777611
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12,981.00 89.94 133.970 4,584.26 -6,463.60 4,452.02 1,882,434.360 2,753,627.543 36.173409747 -107.72987 13,076.00 89.92 134.250 4,584.38 -6,529.72 4,520.24 1,882,368.237 2,753,695.753 36.173227899 -107.72963 13,170.00 91.44 135.190 4,583.26 -6,595.86 4,587.02 1,882,302.102 2,753,762.538 36.173046023 -107.72941										-107.730103264
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		89.92								-107.729639596
13,264.00 90.84 135.580 4,581.39 -6,662.76 4,653.03 1,882,235.202 2,753,828.544 36.172862049 -107.72919	13,170.00	91.44								-107.729413554
	13,264.00	90.84	135.580	4,581.39	-6,662.76	4,653.03	1,882,235.202	2,753,828.544	36.172862049	-107.729190154
13,359.00 90.27 136.100 4,580.47 -6,730.91 4,719.21 1,882,167.053 2,753,894.723 36.172674641 -107.72896	13,359.00	90.27	136.100	4,580.47	-6,730.91	4,719.21	1,882,167.053	2,753,894.723	36.172674641	-107.728966172
13,453.00 89.88 137.040 4,580.35 -6,799.17 4,783.83 1,882,098.790 2,753,959.344 36.172486924 -107.72874	13,453.00	89.88	137.040	4,580.35	-6,799.17	4,783.83	1,882,098.790	2,753,959.344	36.172486924	-107.728747472
13,547.00 90.35 136.080 4,580.16 -6,867.42 4,848.46 1,882,030.539 2,754,023.977 36.172299237 -107.72852	13,547.00	90.35	136.080	4,580.16	-6,867.42	4,848.46	1,882,030.539	2,754,023.977	36.172299237	-107.728528734



Survey Report - Geographic

TVD Reference:

MD Reference:



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Rodeo Unit 511 pad (511, 512 & 513)

Well: Rodeo Unit #513H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference:

Well Rodeo Unit #513H

RKB=6798+13 @ 6811.00ft (Ensign 145) RKB=6798+13 @ 6811.00ft (Ensign 145)

North Reference: Grid

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
13,642.00	89.64	136.670	4,580.17	-6,936.19	4,914.00	1,881,961.772	2,754,089.520	36.172110132	-107.7283069
13,735.00	91.03	135.060	4,579.63	-7,002.93	4,978.76	1,881,895.031	2,754,154.276	36.171926594	-107.728087
13,830.00	90.42	135.100	4,578.42	-7,070.19	5,045.83	1,881,827.768	2,754,221.351	36.171741615	-107.727860
13,924.00	91.54	135.060	4,576.82	-7,136.74	5,112.20	1,881,761.218	2,754,287.715	36.171558597	-107.727636
14,018.00	90.62	135.800	4,575.04	-7,203.69	5,178.15	1,881,694.266	2,754,353.670	36.171374475	-107.727412
14,113.00	91.41	135.220	4,573.36	-7,271.45	5,244.72	1,881,626.507	2,754,420.233	36.171188135	-107.727187
14,207.00	90.77	135.950	4,571.57	-7,338.58	5,310.49	1,881,559.377	2,754,486.006	36.171003523	-107.726965
14,301.00	90.92	134.840	4,570.19	-7,405.50	5,376.49	1,881,492.461	2,754,552.006	36.170819498	-107.726741
14,396.00	90.11	135.060	4,569.33	-7,472.61	5,443.72	1,881,425.348	2,754,619.236	36.170634927	-107.726514
14,490.00	92.05	133.820	4,567.56	-7,538.41	5,510.82	1,881,359.548	2,754,686.334	36.170453967	-107.726287
14,585.00	92.62	134.230	4,563.69	-7,604.38	5,579.07	1,881,293.582	2,754,754.585	36.170272541	-107.726056
14,680.00	91.98	134.850	4,559.88	-7,670.96	5,646.73	1,881,227.002	2,754,822.242	36.170089435	-107.725827
14,774.00	91.27	135.000	4,557.21	-7,737.31	5,713.25	1,881,160.649	2,754,888.769	36.169906951	-107.725601
14,868.00	90.84	135.150	4,555.48	-7,803.86	5,779.62	1,881,094.105	2,754,955.139	36.169723946	-107.725377
14,962.00	90.37	134.710	4,554.49	-7,870.24	5,846.17	1,881,027.723	2,755,021.684	36.169541382	-107.725152
15,016.00	89.56	134.383	4,554.52	-7,908.12	5,884.65	1,880,989.843	2,755,060.168	36.169437204	-107.725021
330 perp	@ 15016 MD	4554.52 TVD							
15,017.00	89.55	134.377	4,554.53	-7,908.82	5,885.37	1,880,989.143	2,755,060.883	36.169435281	-107.725019
LTP @ 15	5017 MD 4554	.53 TVD							
15,038.00	89.23	134.250	4,554.75	-7,923.49	5,900.39	1,880,974.474	2,755,075.908	36.169394936	-107.724968
Survey @	0 15038 MD 4	554.75 TVD							
15,103.00	89.23	134.250	4,555.63	-7,968.84	5,946.95	1,880,929.122	2,755,122.463	36.169270206	-107.724811

Measured	Vertical	Local Coo	rdinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
412.00	411.99	-1.59	-1.23	MWD surveys
2,796.00	2,656.06	-208.59	-615.17	9 5/8" Csg @ 2796 MD 2656.06 TVD
5,092.00	4,583.65	-866.78	-1,092.80	330 perp @ 5092 MD 4583.65 TVD
5,147.92	4,605.00	-902.84	-1,055.81	FTP @ 5147.92 MD 4605.00 TVD
15,016.00	4,554.52	-7,908.12	5,884.65	330 perp @ 15016 MD 4554.52 TVD
15,017.00	4,554.53	-7,908.82	5,885.37	LTP @ 15017 MD 4554.53 TVD
15,038.00	4,554.75	-7,923.49	5,900.39	Survey @ 15038 MD 4554.75 TVD
15,103.00	4,555.63	-7,968.84	5,946.95	Survey Proj. to 15103 MD 4555.63 TVD 2489 FNL 1981 FWL

Checked By:	Approved By:	Date:
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WELL NAME: RODEO UNIT 513H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-I formation

API Number: 30-045-35873 State: New Mexico County: San Juan

Surface Elev.: 6,798 ft ASL (GL) 6,811 ft ASL (KB)

ft FSL Surface Location: 25-23N-09W Sec-Twn- Rng 191

ft FWL 1,325 BH Location: 6-22N-08W Sec-Twn- Rng ft FNL ft FWL 2433 1917

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 37.8 miles to MM 113.4; Right (Southwest) on CR #7890 for 0.8 miles to fork; Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersectionl; Left (Southeast) remaining on CR #7890 for 0.6 miles to fork; Right (Southwest) on CR #7890 for 1.5 miles to access road; Left on access road for 0.5 mile to Rodeo Unit 511H Pad (three wells planned to be

drilled: 511H, 512H, 513H).

QUIC	QUICK REFERENCE									
Sur TD (MD)	360 ft									
Int TD (MD)	2,806 ft									
KOP (MD)	4,283 ft									
KOP (TVD)	3,973 ft									
Target (TVD)	4,666 ft									
Curve BUR	10 °/100 ft									
POE (MD)	5,201 ft									
TD (MD)	15,103 ft									
Lat Len (ft)	9,907 ft									

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	360	13.375	54.5	J-55	BTC	0	360
Intermediate	12.250	2,806	9.625	36.0	J-55	LTC	0	2,806
Production	8.500	15,103	5.500	17.0	P-110	LTC	0	15,103

CEMENT PROPERTIES SUMMARY:

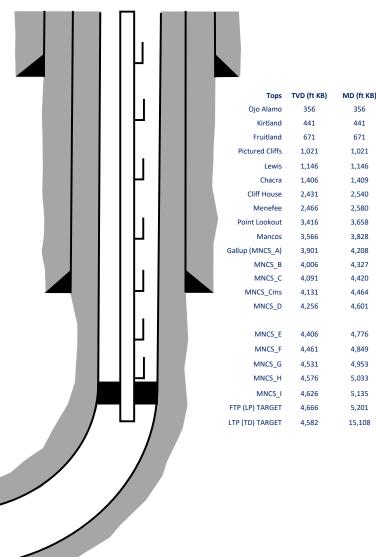
					Hole Cap.		TOC	
	Туре	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	(cuft/ft)	% Excess	(ft MD)	Total (sx)
Surface	TYPE III	14.6	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)):10 Type III:P	12.5	2.14	12.05	0.3627	70%	0	535
Inter. (Tail)	Type III	14.6	1.37	6.63	0.3132	20%	2,261	137
Prod. (Lead)	Type I / II	12.4	2.360	13.40	0.2691	65%	0	613
Prod. (Tail)	G:POZ blend	13.3	1.560	7.70	0.2291	10%	3,828	1,822

COMPLETION / PRODUCTION SUMMARY:

Frac: 40 plug-and-perf stages with 360,000 bbls slickwater fluid and 15,000,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance)

Production: Produce through production tubing via gas-lift into permanent production and storage facilities





ENDURING RESOURCES IV, LLC 6300 S SYRACUSE WAY, SUITE 525 CENTENNIAL, COLORADO 80211

DRILLING PLAN: Drill, complete, and equip single lateral in the Mancos-I formation

WELL INFORMATION:

Name: RODEO UNIT 513H
API Number: 30-045-35873
AFE Number: DV03089
ER Well Number: NM08213
State: New Mexico
County: San Juan

Surface Elevation: 6,798 ft ASL (GL) 6,811 ft ASL (KB)

Surface Location: 25-23N-09W Sec-Twn-Rng 191 ft FSL 1,325 ft FWL

 $36.191178~^\circ \text{N latitude} \qquad 107.744935~^\circ \text{W longitude} \qquad \text{(NAD 83)} \\ \textbf{\textit{BH Location (LTP):}} \qquad 6-22\text{N}-08\text{W Sec-Twn-Rng} \qquad 2,433~\text{ft FNL} \qquad 1,917~\text{ft FWL} \\ \end{cases}$

36.169425 $^{\circ}$ N latitude 107.725026 $^{\circ}$ W longitude (NAD 83)

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 37.8 miles to MM 113.4; Right (Southwest) on CR #7890 for 0.8 miles to fork; Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersectionl; Left (Southeast) remaining on CR #7890 for 0.6 miles to fork; Right (Southwest) on CR #7890 for 1.5 miles to access road; Left on access road for 0.5 mile to Rodeo Unit

511H Pad (three wells planned to be drilled: 511H, 512H, 513H).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O/G/W	Pressure
Ojo Alamo	6,455	356	356	W	normal
Kirtland	6,370	441	441	W	normal
Fruitland	6,140	671	671	G, W	sub
Pictured Cliffs	5,790	1,021	1,021	G, W	sub
Lewis	5,665	1,146	1,146	G, W	normal
Chacra	5,405	1,406	1,409	G, W	normal
Cliff House	4,380	2,431	2,540	G, W	sub
Menefee	4,345	2,466	2,580	G, W	normal
Point Lookout	3,395	3,416	3,658	G, W	normal
Mancos	3,245	3,566	3,828	O,G	sub (~0.38)
Gallup (MNCS_A)	2,910	3,901	4,208	O,G	sub (~0.38)
MNCS_B	2,805	4,006	4,327	O,G	sub (~0.38)
MNCS_C	2,720	4,091	4,420	O,G	sub (~0.38)
MNCS_Cms	2,680	4,131	4,464	O,G	sub (~0.38)
MNCS_D	2,555	4,256	4,601	O,G	sub (~0.38)
MNCS_E	2,405	4,406	4,776	O,G	sub (~0.38)
MNCS_F	2,350	4,461	4,849	O,G	sub (~0.38)
MNCS_G	2,280	4,531	4,953	O,G	sub (~0.38)
MNCS_H	2,235	4,576	5,033	O,G	sub (~0.38)
MNCS_I	2,185	4,626	5,135	O,G	sub (~0.38)
FTP (LP) TARGET	2,145	4,666	5,201	O,G	sub (~0.38)
LTP (TD) TARGET	2,229	4,582	15,108	O,G	sub (~0.38)

Surface: Nacimiento

Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Gallup

Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations

Max. pressure gradient:0.43psi/ftEvacuated hole gradient:0.22psi/ftMaximum anticipated BH pressure, assuming maximum pressure gradient:2,010psiMaximum anticipated surface pressure, assuming partially evacuated hole:990psi

Temperature: Maximum anticipated BHT is 125° F or less

H₂S INFORMATION:

H₂**S** Zones: Encountering hydrogen-sulfide bearing zones is **NOT** anticipated.

Safety: Sensors and alarms will be placed in the substructure, on the rig floor, above the pits, and at the shakers.

LOGGING, CORING, AND TESTING:

Mud Logs: None planned; gas detection from drill out of 13-3/8" casing to TD; remote geo-steering from drill out of 9-5/8"

casing to ${\sf TD}.$

MWD / LWD: MWD surveys with inclination and azimuth in 100' stations (minimum) from drill out of 13-3/8" casing to TD;

 $\hbox{Gamma Ray from drill out of 9-5/8" casing to TD; Gamma Ray optional in 12-1/4" intermediate hole } \\$

Open Hole Logs: None planned Testing: None planned Coring: None planned

Cased Hole Logs: CBL on 5-1/2" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Ensign Ria No.: 145

Draw Works: Lewco LDS 1500K (1.000 hp)

Mast: ADR 1000 Cantilever Triple (134 ft, 500,000 lbs)

Top Drive: Tesco 350-EXI-600 (250 ton)

Prime Movers: 2 - CAT 3512 (1,350 hp), 1 -CAT C32 (1,100 hp)

Pumps: 2 - Mudder MD11 (5,000 psi)

BOPE 1: T3 Annular & Shaffer double gate ram (13-5/8", 5,000 psi)

Int Hole BOPE 2: T3 annular(13-5/8", 5,000 psi)

Prod Hole BOPE 2: T3 annular/ Townsend Double gate(11", 5,000 psi)

Choke 3", 5,000 psi KB-GL (ft): 13

Note: Actual drilling rig may vary depending on availability at time the well is scheduled to be drilled.

Note: BOPE 2 are alternate stacks to be used only if problems with rig height and BOP 1 height are encountered.

Intermediate hole BOPE 2 is designed for 2,000 psi permit requirements.

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 3) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.
- 4) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 5) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 6) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when the there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement: Pumps shall be equipped with stroke counters with displays in the dog-house. Slow pump speed shall be recorded daily and after mudding up, at a minimum, on the drilling report. A Pit Volume Totalizer will be installed and the readout will be displayed in the dog-house. Gas-detecting equipment will be installed at the shakers, and readouts will be available in the dog-house and the in the geologist's work-station (if geologist or mud-logger is on-site).

Closed-Loop System: A fully, closed-loop system will be utilized. The system will consist of above-ground piping and above-ground storage tanks and bins. The system will not entail any earthen pits, below-grade storage, or drying pads. All equipment will be disassembled and removed from the site when drilling operations cease. The system will be capable of storing all fluids and generated cuttings and of preventing uncontrolled releases of the same. The system will be operated in an efficient manner to allow the recycling and reuse of as much fluid as possible and to minimimize the amount of fluids and solids that require disposal.

Fluid Disposal: Fluids that cannot be reused, recycled, or returned to the supplier will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Solids Disposal: Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage products. Waste solids will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech. Inc.).

Fluid Program: See "Detailed Drilling Plan" section for specifics and fluid program from Newpark. Sufficient weighting agent will be on location to weight up mud system to balance the maximum expected pressure gradient.

DETAILED DRILLING PLAN:

SURFACE: Drill vertically to casing setting depth (plus necessary rathole), run casing, cement casing to surface.

0 ft (MD)	to	350 ft (MD)	Hole Section Length:	350 ft
0 ft (TVD)	to	350 ft (TVD)	Casing Required:	350 ft

Note: Surface hole may be drilled, cased, and cemented with a smaller rig in advance of the drilling rig.

			FL		ΥP		
Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	pН	Comments
	Fresh Water	8.4	N/C	2 - 8	2 - 12	9.0	Spud mud

Hole Size: 17-1/2"

Bit / Motor: Mill Tooth or PDC, no motor **MWD / Survey:** No MWD, deviation survey

Logging: None

Procedure: Drill to TD. Use 12-/4" bit and open to 17-1/2" if unable to drill with 17-1/2" bit. Run inclination survey in 100'

stations from TD to surface. Condition hole and fluid for casing running as required. TOOH. Run casing. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface. Install cellar and

wellhead.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
Loading					153	571	116,634	116,634
Min. S.F.					7.39	4.78	7.31	7.79

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling

intermediate hole and 8.4 ppg equivalent external pressure gradient Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minumum: N/A Optimum: N/A Maximum: N/A

Make-up as per API Buttress Connection running procedure.

Casing Details: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

			Yield	Water	Hole Cap.		Planned TOC	Total Cmt
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	(cuft/ft)	% Excess	(ft MD)	(sx)
	TYPE III	14.6	1.39	6.686	0.6946	100%	0	350

Drake Energy Services: Calculated cement volumes assume gauge hole and the excess noted in table

Calcium Chloride D-CD2 .2% BWOC

ASTM Type III .5% BWOC Dispersant/Friction

Tail Blend Accelerator reducer

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength

before drilling out.

INTERMEDIATE: Drill as per directional plan to casing setting depth, run casing, cement casing to surface.

350 ft (MD)	to	2,761 ft (MD)	Hole Section Length:	2,411 ft
350 ft (TVD)	to	2,626 ft (TVD)	Casing Required:	2,761 ft

*TARGET CSG SHOE DEPTH IS 150' TVD BELOW MENEFEE TOP

			FL		YP		
Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Comments
	ISND (KCI)	88-95	20	8 - 14	8 - 14	90-95	No OBM

Hole Size: 12-1/4"

Bit / Motor: PDC w/mud motor

Bit / Motor (Detail): MOTOR: NOV 087840 - 7/8, 4.0, stage, 0.16 rev/gal, 1.83 DEG, 900 GPM, 950 DIFF PSIG

BIT: 5- or 6-BLADE PDC w/16 mm or 19 mm cutters, target TFA 0.65 - 1.0 max); 6 - 14s = 0.902 sq-in TFA

MWD / Survey: MWD surveys with inclination and azimuth in 100' stations (minimum), GR optional

Logging: None

Pressure Test: NU BOPE and test (as noted above); pressure test 13-3/8" casing to 1,500

Procedure: Drill to TD following directional plan (20' rat-hole (MAX) past casing setting depth). Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10', when possible. Take surveys every stand, at a minimum. Target flow-rates of 750 GPM (higher if able to control return rates). Minimum desired flow-rate is 650 GPM. At TD, condition hole and fluid for casing running. TOOH. Run casing using a CRT and washing / circulating as required.

Land casing. ND BOPE. Walk rig to next well and perform off-line cement job, if possible. Pump cement as detailed

below. Monitor returns during cement job and note cement volume to surface.

							Tens. Body	Tens. Conn
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,147	1,140	186,678	186,678
Min. S.F.					1.76	3.09	3.02	2.43

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling

production hole and 8.4 ppg equivalent external pressure gradient Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minumum: 3,900 Optimum: 5,200 Maximum: 6,500

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface

psi for 30 minutes.

Centralizers: 1 centralizers jt stop-banded 10' from float shoe on bottom 1 jt & 1 centralizer floating on bottom joint, 1 centralizer per 3 jts to surface

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)		
	90:10 Type								
Lead	III:POZ	12.5	2.140	12.05	70%	0	535		
Tail	Type III	14.6	1.370	6.63	20%	2,261	137		
r Canacitu	0.2627	ouft/ft	0. F/9" excises y 12. 2/9" excises expedies						

Annular Capacity

9-5/8" casing x 13-3/8" casing annulus 0.3132 cuft/ft 9-5/8" casing x 12-1/4" hole annulus

Drake Energy Services: Calculated cement volumes assume gauge hole and the excess noted in table

Spacer D-Mud Breaker SAPP

D-MPA-1 .4%

D-CSE 1 5.0% BWOC Fluid Loss &

BWOC Strength ASTM Type III Lead 90/10 Poz Enhancer

Gas Migration D-SA 1 1.4% BWOC D-CD 2 .4% BWOC Cello Flace LCM .25 D-FP 1 .5% BWOC

D-R1 .5% Retarder Control Na Metasilicate Dispersant lb/sx Defoamer D-MPA-1 .4%

BWOC Fluid Loss &

Gas Migration Cello Flace LCM .25

ASTM Type III Tail Blend

Drake Intermediate Cementing Program

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

PRODUCTION: Drill to TD following directional plan, run casing, cement casing to surface.

2,761 ft (MD)	to	15,108 ft (MD)	Hole Section Length:	12,347 ft
2,626 ft (TVD)	to	4,582 ft (TVD)	Casing Required:	15,108 ft

Estimated KOP:	4,283	ft (MD)	3,973	ft (TVD)
Estimated Landing Point (FTP):	5,201	ft (MD)	4,666	ft (TVD)
Estimated Lateral Length:	9,907	ft (MD)		

Fluid:

					ΥP		
:	Туре	MW (ppg)	FL (mL/30')	PV (cp)	(lb/100 sqft)	ES	OWR
	OBM	8.7 - 9.0	10 - 15	10 - 20	6 - 10	500+	80:20

Fluids / Solids Notes: Newpark OptiDrill OBM system. Ensure that drying shakers are rigged up after the rig (2nd set) of shakers. Solids control will burn retorts on cuttings samples one per tour to check % ROC. Add diesel and products as required to maintain mud in program specs. Reference Newpark's mud program for additional details. No asphalt products are to be added to the OBM system. Any changes to the mud systems are to be discussed with engineering prior to application.

Hole Size: 8-1/2"

Bit / Motor: PDC w/mud motor

Bit / Motor (Detail): MOTOR: NOV 077857 - 7/8, 5.7, stage, 0.23 rev/gal, 1.83 - 2.12 DEG, 750 GPM, 1,580 DIFF PSIG (or similar); on

demand friction breaking device(s) as required, bottom tool spaced ~3,000' behind the bit.

BIT: 5-BLADE PDC w/16 mm - 19 mm cutters, matrix body, target TFA = 1.0 - 1.5 sq-in

MWD / Survey: MWD surveys with inclination and azimuth in 100' stations (minimum) before KOP, every joint from KOP to POE,

every 100' (minimum) from POE to TD: Gamma Ray from drill out of 9-5/8" shoe to TD

Logging: MWD Gamma Ray for entire section, no mud-log or cuttings sampling, no OH WL logs

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to 1,500 psi for 30 minutes.

Procedure: Drill to KOP following directional plan. Target flow-rate is 650 - 700 GPM. Target differential is pressure is 700 1.000 psig. Target ROP 500 - 600 ft/hr. Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10' until KOP, when feasible. Take surveys every stand, at a minimum. Confirm landing target, planned BUR for curve, and KOP with Geology and Engineering. Drill curve following directional plan and updated landing target. Take survey every joint during curve. Land curve. Continue drilling in lateral section, steering as needed to keep well on plan and in the target window. Keep DLS < 2 deg/100' and keep slide length < 20', when feasible. Take surveys every stand, at a minimum. Target rotating parameters / performance: flow-rate is 650 - 700 GPM, differential is pressure is 700 - 1,000 psig, ROP 500 - 600 ft/hr, torque 38K ft-lbs (MAX drill pipe MUT). After reaching TD, perform clean-up cycle to condition hole for casing running. Spot lube as required and TOOH (ROOH, if required; should NOT be required with OBM system). Run casing as described below. Use CRT for casing running only if necessary (should NOT be required with OBM). Verify make up torque when running casing. Space out casing getting the toe sleeve as close to LTP as possible. Land casing and test pack-off. Open floatation sub, fill casing, and circulate as required. Nipple down BOPE, walk rig to next well, and perform off-line cement job (unless on final well on the pad). Pump cement as detailed below. Note cement volume circulated to surface.

							Tens. Body	Tens. Conn
Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	5.500	20.0	HCP-110	TCBC-HT	12,200	12,360	641,000	667,000
Loading					2,264	8,929	410,737	410,737
Min. S.F.					5.39	1.38	1.56	1.62

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running)

Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden

fluid with 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 9.0 ppg fluid with 150,000 lbs over-pull

MU Torque (ft lbs):

Minumum: 10,000

Optimum: 13,500

Maximum:

18,500

Casing Summary: Float shoe, 1 float collar, 1 jt casing, float collar, 20' marker joint, toe-intitiation sleeve, casing to KOP with 20'

marker joints spaced evenly in lateral every ~2,000', floatation sub at KOP (+/-), casing to surface. The toe-initiation sleeve shall be placed no closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the the azimuth of the well. **Note: the LTP is the maximum depth of the toe sleeve and is noted on the Well Plan. Drill past the LTP as required for necessary rat-hole and shoe-track length to place the**

toe sleeve as close to (but not past) the planned LTP as possible.

Centralizers: Centralizer count and placement may be adjusted based on well conditions and as-drilled surveys (ARSENAL

Lateral and Curve: 1 centralizer per 3 joints

Top of curve to 9-5/8" shoe: 1 centralizer per 5 joints

9-5/8" shoe to surface: 1 centralizer per 5 joints

Cement:	Туре	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
	IntegraGuard						
Spacer	EZ II LCM	11		30.7 gpb			60 bbls
Lead	Type I / II	12.4	2.360	13.40	65%	0	613
Tail	G:POZ blend	13.3	1.560	7.70	10%	3,828	1,822

Annular Capacity

0.2691 cuft/ft 0.2291 cuft/ft 5-1/2" casing x 9-5/8" casing annulus 5-1/2" casing x 8-1/2" hole annulus

Calculated cement volumes assume gauge hole and the excess noted in table

IntegraGuard Star

Cmt, Fly Ash Avis 616 viscosifier FP24 Defoamer .5 Plus 3K LCM 15 SS201 Surfactant 1

Spacer 170.903 lbs/bbl 11.6 lb/bbl lb/bbl lb/bbl gal/bbl

FP24 Defoamer Bentonite IntegraGuard FL24 Fluid Loss .5% GW86 Viscosifier R7C Retarder .2% 0.3% BWOB, Anti-BA90 Bonding Viscosifier 8% IntegraSeal Poli Static .01 lb/sx Lead ASTM Type I/II .1% BWOB Agent 5.0 lb/sx BWOB BWOB LCM .25 lb/sx R3 Retarder .5% FP24 Bentonite IntegraGuard BWOB Pozzolan Fly Ash BA90 Bonding Viscosifier 4% FL24 Fluid Loss .4% GW86 Viscosifier Defoamer .3% Tail Type G 50% Extender 50% Agent 3.0 lb/sx **BWOB BWOB** .1% BWOB ICM .25 lb/sx **BWOB**

American Cementing Liner & Production Blend

Notify NMOCD & BLM if cement is not circulated to surface.

Note: This well will not be considered an unorthodox well location as definted by NMAC19.15.16.15.C.5. As defined in NMAC 19.15.16.15.C.1.a and 19.15.16.15.C.1.b, no point in the completed interval shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth well. The boundaries of the completed interval, as defined by NMAC 19.15.16.7.B, are the last take point and first take point, as defined by NMAC 19.15.16.7.E and NMAC 19.15.16.7.J, respectively. In the case of this well, the last take point will be the bottom toe-initiation sleeve, and the first take point will be the top perforation. Neither the toe-initiation sleeve nor the top perforation shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth of the well.

FINISH WELL: ND BOP. RDMO Drilling Rig.

Procedure: ND BOP. Walk rig to next well. Cement off-line. Cap well.

COMPLETION AND PRODUCTION PLAN:

Frac: 40 plug-and-perf stages with 360,000 bbls slickwater fluid and 15,000,000 lbs of proppant (estimated)
Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance)
Production: Produce through production tubing via gas-lift into permanent production and storage facilities

ESTIMATED START DATES:

 Drilling:
 7/1/2022

 Completion:
 8/15/2022

 Production:
 9/29/2022

Prepared by: Alec Bridge 2/7/2020

Updated by: Alec Bridge 3/31/2022 - updated drilling prog & directional plans for new development plan & current program

Greg Olson 10/17/2022 - updated drilling prog & directional plans for new development plan & current program

Enduring Resources IV, LLC

WELL NAME: RODEO UNIT 513H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-I formation

API Number: 30-045-35873 State: New Mexico County: San Juan

Surface Elev.: 6,798 ft ASL (GL) 6,811 ft ASL (KB)

ft FSL Surface Location: 25-23N-09W Sec-Twn- Rng 191

ft FWL 1,325 BH Location: 6-22N-08W Sec-Twn- Rng ft FNL ft FWL 2433 1917

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 37.8 miles to MM 113.4; Right (Southwest) on CR #7890 for 0.8 miles to fork; Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersectionl; Left (Southeast) remaining on CR #7890 for 0.6 miles to fork; Right (Southwest) on CR #7890 for 1.5 miles to access road; Left on access road for 0.5 mile to Rodeo Unit 511H Pad (three wells planned to be

drilled: 511H, 512H, 513H).

QUICK REFERENCE								
Sur TD (MD)	350 ft							
Int TD (MD)	2,761 ft							
KOP (MD)	4,283 ft							
KOP (TVD)	3,973 ft							
Target (TVD)	4,666 ft							
Curve BUR	10 °/100 ft							
POE (MD)	5,201 ft							
TD (MD)	15,108 ft							
Lat Len (ft)	9,907 ft							

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,761	9.625	36.0	J-55	LTC	0	2,761
Production	8.500	15,108	5.500	20.0	HCP-110	TCBC-HT	0	15,108

CEMENT PROPERTIES SUMMARY:

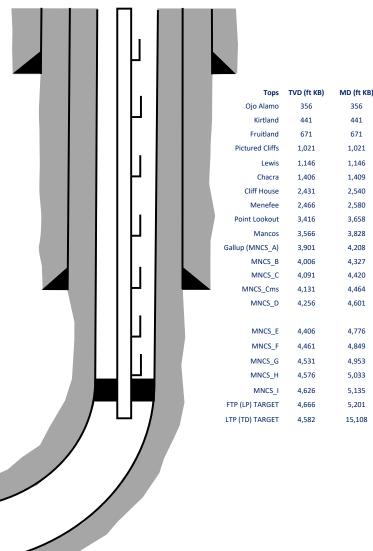
					Hole Cap.		TOC	
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	(cuft/ft)	% Excess	(ft MD)	Total (sx)
Surface	TYPE III	14.6	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)):10 Type III:P	12.5	2.14	12.05	0.3627	70%	0	535
Inter. (Tail)	Type III	14.6	1.37	6.63	0.3132	20%	2,261	137
Prod. (Lead)	Type I / II	12.4	2.360	13.40	0.2691	65%	0	613
Prod. (Tail)	G:POZ blend	13.3	1.560	7.70	0.2291	10%	3,828	1,822

COMPLETION / PRODUCTION SUMMARY:

Frac: 40 plug-and-perf stages with 360,000 bbls slickwater fluid and 15,000,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance)

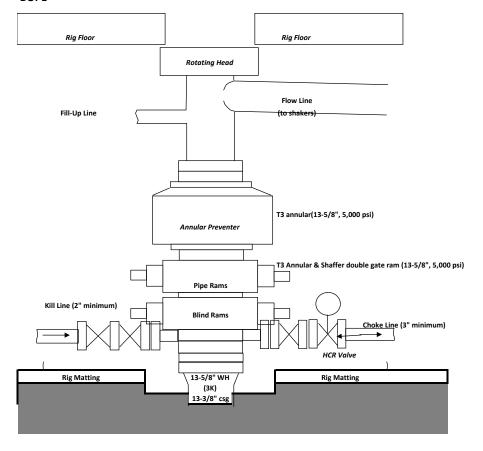
Production: Produce through production tubing via gas-lift into permanent production and storage facilities



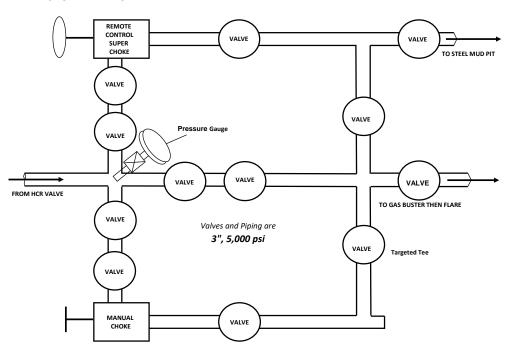
BOPE & CHOKE MANIFOLD DIAGRAMS

NOTE: EXACT BOPE AND CHOKE CONFIRGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM.

BOPE



CHOKE MANIFOLD

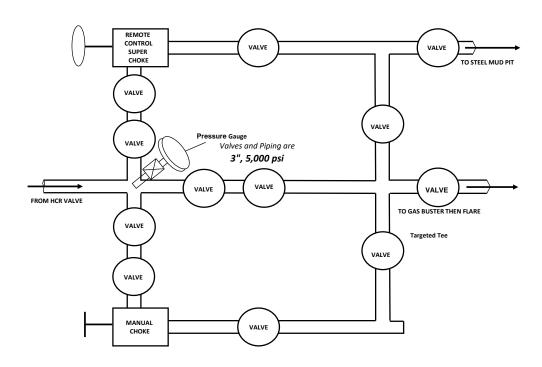


ALTERNATE, INTERMEDIATE HOLE ONLY, BOPE & CHOKE MANIFOLD DIAGRAMS

NOTE: EXACT BOPE AND CHOKE CONFIRGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 2,000 PSI MINIMUM. THIS BOPE SETUP IS AN ALTERNATE ONLY, DESIGNED FOR ANY POSSIBLE FUTURE DRILLING RIG WITH SUBSTRUCTURE HEIGHT THAT IS TOO SHORT TO ACCOMADATE A FULL 13-5/8" 3,000 PSI BOP STACK

BOPE CHOKE MANIFOLD

INTERMEDIATE HOLE BOPE Rig Floor Rig Floor Rotating Head Flow Line (to shakers) Fill-Up Line Annular Preventer T3 annular (13-5/8", 3,000 psi) **Mud Cross** HCR Valve Choke Line (3" minimum) 13-5/8" WH Rig Matting Rig Matting (3K) 13-3/8" csg



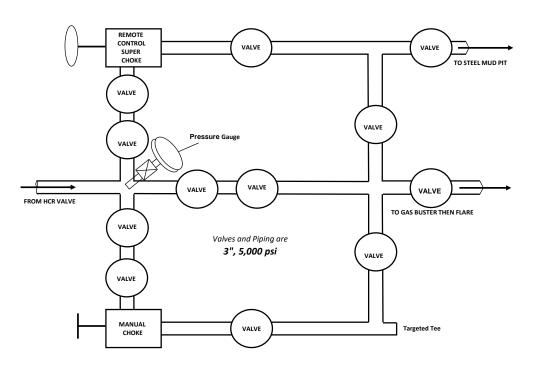
ALTERNATE, PRODUCTION HOLE ONLY, BOPE & CHOKE MANIFOLD DIAGRAMS

NOTE: EXACT BOPE AND CHOKE CONFIRGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM. THIS BOPE SETUP IS AN ALTERNATE ONLY, DESIGNED FOR ANY POSSIBLE FUTURE DRILLING RIG WITH SUBSTRUCTURE HEIGHT THAT IS TOO SHORT TO ACCOMADATE A FULL 13-5/8" 3,000 PSI BOP STACK

CHOKE MANIFOLD

BOPE

PRODUCTION HOLE BOPE **Rotating Head** Rig Floor Rig Floor Flow Line (to shakers) Fill-Up Line T3 annular/ Townsend Double gate(11", 5,000 psi) **Annular Preventer** Pipe Rams **Mud Cross** HCR Valve Choke Line (3" minimum) Rig Matting 13-5/8" WH Rig Matting (3K) 13-3/8" csg



WELL NAME: RODEO UNIT 513H
API NUMBER: 30-045-35873
AFE NUMBER: DV03089
ER WELL NUMBER: NM08213
WELL LOCATION: 191 ft FSL & 1325 ft FWL 25-23N-09W

AFE SUMMARY: Drill, complete, and equip single lateral in the Mancos-I formation TD (FT MD): 15,108

LAT LEN (FT MD): 9,907

DRILLING SUMMARY DRILLING SUMMARY

Drill Surface: Mo-Te will pre-drill surface hole

Prep hole for casing, run 13-3/8" casing, cement casing: Mo-Te will pre-set surface casing

MIRU Drilling Rig to pad (mob rate)

Walk Rig, NU BOPE, TIH w/BHA (operating rate)

Drill Intmerediate to casing point (into Menefee)

Prep hole for casing, run 9-5/8" casing, cement casing, walk rig for production section, NU BOPE, PU BHA & TIH

Drill Curve to landing point

Drill lateral to TD

Prep hole for rasing run 5-1/2" casing, cement casing Prep hole for casing, run 5-1/2" casing, cement casing NEW WELLS: 5
EXISTING WELLS: 0

Cum. Drlg. Ttl. Dep. **Days** 0.50 **Days** 0.50 (ft MD) (ft MD) 350 (ft/day) 700 Drill Surface: N/A Surface Casing 1.00 N/A Test & PU BHA N/A 2411 N/A 3215 Drill Inte 0.75 Inter. Casing 2,76 1224 Drill Curve: 0.75 1.75 3.50 5.25 918 9907 Drill Lateral: 15,108 1.50 N/A N/A

Prod Casing:
DO SURF TO RR:
TOTAL BIG RIG DAYS:
TOTAL BIG RIG DAYS: 6.75 6.75 7.50 7.50 (Total Operating Rate Days) (Total Days Operating + Mobilization)

CODE 1	E LENGTH:	: 235								
ODE 1	STAGES:		795H is firs	t well on pac	i					
ODE 1				ANTITY DETAILS			ITEM	CODE		
	CODE 2	COST DESCRIPTION & DETAILS	Rate	units	Count	desc.	Count	desc.	SUBTOTAL	TOTAL
830	10	IDC - PERMITS & SURVEYS								\$5
		Permits w/BLM & NMOCD	\$10,000	\$/ea	1	еа			\$10,000	
		Air Quality Management Services	\$4,000	\$/ea	1	еа			\$4,000	
		NEPA Services	\$3,000	\$/ea	1	еа			\$3,000	
		Archaelogy	\$1,500	\$/ea	1	еа			\$1,500	
		Survey & Mapping	\$20,000	\$/ea	1	еа			\$20,000	
		ROW & SUA	\$20,000	\$/ea	1	еа			\$20,000	
30	15	IDC - CONDUCTOR/RAT/MOUSE HOLE								\$
		install cellar w/Adobe (8' diameter x 8' deep & backfilled to no more than 6' deep after WH is installed)	\$5,000	\$/ea	1	ea			\$5,000	
		Drill Mousehole w/MOTE	\$4,000	\$/ea	1	еа			\$4,000	
30	20	IDC - DRILLING TITLE OPINION								
		N/A							\$0	
30	30	IDC - LOCATION AND ROADS								\$4
		Build pad & access road (\$150,000 pad total, split evenly between CTB & D&C AFEs)	\$75,000	\$/pad	3	wells			\$25,000	
		Interim reclamation	\$60,000	\$/pad	3	wells			\$20,000	
30	50	IDC - RIG MOBILIZATION		,						\$9
		mobilize rig from W Lybrook Unit 726H Pad	\$200,000	\$/mob	1	mob	3	wells	\$66,667	
		mobilize other rig equipment (camps, solids control, drill pipe, etc.)	\$95,000	\$/mob	1	mob	3	wells	\$31,667	
30	60	IDC - DAYRATE DRILLING	\$55,000	ŞJIIIOD		11100	3	WCIIS	731,007	\$2
30	00	Ensign 145 (mobilization rate - 85% op rate)	\$17,850	\$/day	2.0	days			\$35,700	72
			\$21,000	\$/day	7.50				\$157,500	
		Ensign 145 (operating - \$18,600/day + \$2400/day 6th man)				days	42			
		Ensign 145 (crew per diem - \$35/day + tax)	\$35	\$/day/man	7.50	days	13	men	\$3,413	
		Ensign Edge drilling software (\$600/day - used + tax)	\$600	\$/day	7.50	days			\$4,500	
		Forklift + Manlift (\$380/day + tax)	\$380	\$/day	7.50	days			\$2,850	
		Ensign 145 (OBM pay) = \$400/day + \$35/day/man, 8.5 section only	\$35	\$/day/man	4.50	days	13	men	\$4,005	
		drill pipe credit	\$0	\$/day	7.50	days			\$0	
		Boiler (winter only)	\$750	\$/day	7.50	days			\$5,625	
30	65	IDC - FISHING SERVICES								
		N/A							\$0	
30	70	IDC - FOOTAGE DRILLING								\$
		Mo-Te to drill surface hole & set surface casing	\$28,000	\$/ea	1	ea			\$28,000	
30	75	IDC - DIRECTIONAL SERVICES								\$1
		MWD & DD operating charges: including motor rentals	\$11,180	\$/day	7.50	days			\$83,850	
		MWD & DD operating charges: standby	\$5,000	\$/day	1.0	day			\$5,000	
		Other charges: trucking, inspections, battery disposal, motor inspections / relines, well planning, etc	\$35,000	\$/ea	1	ea			\$35,000	
30	90	IDC - BITS	700,000	7,00					+00,000	\$
30	50	12-1/4" bit rental	\$12,500	\$/ea	1	ea			\$12,500	Ψ
		8-1/2" bit rental	\$12,500	\$/ea	1	еа			\$12,500	_
30	92	IDC - MOTORS/AGITATORS								\$
		third party motor rentals	\$15,000	\$/run	0	runs			\$0	
		motor re-lines & inspections	\$6,000	\$/ea	0	ea			\$0	
		agitator rentals & inspection	\$20,000	\$/ea	1	еа			\$20,000	
330	95	IDC - BRINE MUD, CHEM & TRUCK								\$
		20% KCl base fluid + trucking	\$40.00	\$/bbl	350	bbls			\$14,000	
830	100	IDC - MUD & CHEMICALS								\$
		engineer	\$5,000	\$/day	3.00	days			\$15,000	
		mud products	\$5	\$/ft	2761	ft			\$13,805	
330	105	IDC - OILBASE MUD, CHEM & TRUCKING								\$1
		mud products (not including lubricant) & mud engineer	\$8,000	\$/day	4.50	days			\$36,000	
		add'l chem usage	\$6.00	\$/ft	4,851	ft			\$29,106	
		diesel make up for OBM			9907	ft	\$5.50	gal		
30									581./33	
00	106	IDC - MUD HANDLING FOLUP RENTAL	1.50	gal/ lat ft				8	\$81,733	Ś
	106	IDC - MUD HANDLING EQUIP RENTAL	1.50			days		8		\$
	106	solids control package & mud storage (equipment, personnel, materials)	1.50 \$4,200	\$/day	7.50	days		8=-	\$31,500	\$
	106	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins	\$4,200 \$1,500	\$/day \$/day	7.50 7.50	days		3=-	\$31,500 \$11,250	\$
220		solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader	1.50 \$4,200	\$/day	7.50	-		8=-	\$31,500	
330	106	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER	\$4,200 \$1,500 \$350	\$/day \$/day \$/day	7.50 7.50 7.50	days days	7.50		\$31,500 \$11,250 \$2,625	
330		solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating)	\$4,200 \$1,500 \$350 \$5.50	\$/day \$/day \$/day \$/gal	7.50 7.50 7.50 3,500	days days gal/day	7.50	days	\$31,500 \$11,250 \$2,625 \$144,375	
330		solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel	\$4,200 \$1,500 \$350 \$5.50 \$5.50	\$/day \$/day \$/day \$/gal \$/day	7.50 7.50 7.50 3,500 500	days days gal/day gal/day	7.50	days days	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625	
	110	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization)	\$4,200 \$1,500 \$350 \$5.50	\$/day \$/day \$/day \$/gal	7.50 7.50 7.50 3,500	days days gal/day		days	\$31,500 \$11,250 \$2,625 \$144,375	\$1
		solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Bolier diesel Rig Diesel (mobilization) IDC - RIG WATER	1.50 \$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50	\$/day \$/day \$/day \$/gal \$/day \$/gal	7.50 7.50 7.50 7.50 3,500 500 1,000	days days gal/day gal/day gal	7.50 0.0	days days days	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0	\$1
330	110	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC-FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC-RIG WATER Water for cement jobs & rig (including trucking)	\$4,200 \$1,500 \$350 \$5.50 \$5.50	\$/day \$/day \$/day \$/gal \$/day	7.50 7.50 7.50 3,500 500	days days gal/day gal/day	7.50	days days	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625	\$1
330	110	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS	1.50 \$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50	\$/day \$/day \$/day \$/gal \$/day \$/gal	7.50 7.50 7.50 7.50 3,500 500 1,000	days days gal/day gal/day gal	7.50 0.0	days days days	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770	\$1
330	110 120 121	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50	\$/day \$/day \$/day \$/gal \$/day \$/gal	7.50 7.50 7.50 7.50 3,500 500 1,000	days days gal/day gal/day gal	7.50 0.0	days days days	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0	\$1 \$
330	110	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS	1.50 \$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50	\$/day \$/day \$/day \$/gal \$/day \$/gal \$/bbl	7.50 7.50 7.50 7.50 3,500 500 1,000	days days gal/day gal/day gal	7.50 0.0	days days days	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770	\$1 \$
330	110 120 121	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50	\$/day \$/day \$/day \$/gal \$/day \$/gal	7.50 7.50 7.50 7.50 3,500 500 1,000	days days gal/day gal/day gal	7.50 0.0	days days days	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770	\$1 \$
330	110 120 121	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120 IDC - CEMENT & CEMENT SERVICES	1.50 \$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50	\$/day \$/day \$/day \$/gal \$/day \$/gal \$/bbl	7.50 7.50 7.50 7.50 3,500 500 1,000	days days gal/day gal/day gal	7.50 0.0	days days days	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770	\$1 \$
30	110 120 121	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC-FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC- RIG WATER Water for cement jobs & rig (including trucking) IDC- WATER FOR DRILLING FLUIDS all charged to 830.120 IDC- CEMENT & CEMENT SERVICES 13-3/8" casing cement job	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.00	\$/day \$/day \$/day \$/gal \$/day \$/gal \$/bbl	7.50 7.50 7.50 7.50 3,500 500 1,000	days days gal/day gal/day gal	7.50 0.0	days days days	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000	\$1 \$
230	110 120 121	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job	1.50 \$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.00 \$5,000	S/day S/day S/day S/gal S/day S/gal S/bbl	7.50 7.50 7.50 3,500 500 1,000	days days gal/day gal/day gal bbls/ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000	\$1 \$
30	110 120 121 130	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job	1.50 \$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.00 \$5,000	S/day S/day S/day S/gal S/day S/gal S/bbl	7.50 7.50 7.50 3,500 500 1,000	days days gal/day gal/day gal bbls/ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000	\$1 \$
30 30 30	110 120 121 130	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00	\$/day \$/day \$/day \$/day \$/gal \$/bbl \$/job \$/job \$/job	7.50 7.50 7.50 3,500 500 1,000 0.50	days days gal/day gal/day gal bbls/ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648	\$1 \$
30 30 30	110 120 121 130	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job IDC - CASING CREW/SERVICES Run 13-3/8" casing expent job IDC - CASING CREW/SERVICES Run 13-3/8" casing	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$40,000 \$4,500 \$1.50	S/day S/day S/day S/day S/gal S/bbl S/job S/job S/job S/job	7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00	days days gal/day gal/day gal bbls/ft \$/ft job ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142	\$1 \$
30 30 30	110 120 121 130	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job IDC - CASING CREW/SERVICES Run 13-3/8" casing Rack, clean, drift 9-5/8" casing Run 9-5/8" casing + CRT rental	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$5,000 \$40,000 \$4,500 \$1.50 \$2.50	\$/day \$/day \$/day \$/gal \$/gal \$/bbl \$/job \$/job \$/job \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00	days days gal/day gal/day gal bbls/ft \$/ft job ft ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903	\$1 \$
30 30	110 120 121 130	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 330.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job IDC - CASING CREW/SERVICES Run 13-3/8" casing Run 9-5/8" casing	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$40,000 \$40,000 \$4,500 \$2.50 \$6,000	\$/day \$/day \$/day \$/gal \$/gal \$/bbl \$/job \$/job \$/job \$/fit \$/ft \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00	days days gal/day gal/day gal bbls/ft \$/ft job	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000	\$1 \$
30 30 30	110 120 121 130	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC-FULL& POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC- RIG WATER Water for cement jobs & rig (including trucking) IDC- WATER FOR DRILLING FLUIDS all charged to 830.120 IDC- CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job IDC- CASING CREW/SERVICES Run 13-3/8" casing to ment job IDC- CASING CREW/SERVICES Run 13-3/8" casing Rew job IDC- CASING CREW/SERVICES Run 9-5/8" casing cement job	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50	\$/day \$/day \$/day \$/gal \$/gal \$/job \$/job \$/job \$/job \$/job \$/job \$/job \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108	days days gal/day gal/day gal bbls/ft \$/ft job ft job ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554	\$1 \$
30 30	110 120 121 130	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC-FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC- RIG WATER Water for cement jobs & rig (including trucking) IDC- WATER FOR DRILLING FLUIDS all charged to 830.120 IDC- CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job IDC- CASING CREW/SERVICES Run 13-3/8" cosing Rack, clean, drift 9-5/8" casing Rack, clean, drift 9-5/8" casing Run 9-5/8" casing + CRT rental 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing Run 5-1/2" casing	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25	\$/day \$/day \$/day \$/day \$/gal \$/bbl \$/job \$/job \$/job \$/fit \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108	days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885	\$1 \$
80	110 120 121 130	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC- FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC- RIG WATER Water for cement jobs & rig (including trucking) IDC- WATER FOR DRILLING FLUIDS all charged to 830.120 IDC- CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job IDC- CASING CREW/SERVICES Run 13-3/8" casing to sement job 9-5/8" casing tement job IDC- CASING CREW/SERVICES Run 13-3/8" casing to sement job 9-5/8" casing to sement job IDC- CASING CREW/SERVICES Run 13-3/8" casing Rack, clean, drift 9-5/8" casing Run 9-5/8" casing + CRT rental 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing 5-1/2" CRT & Torque Turn	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50	\$/day \$/day \$/day \$/gal \$/gal \$/job \$/job \$/job \$/job \$/job \$/job \$/job \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108	days days gal/day gal/day gal bbls/ft \$/ft job ft job ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554	\$1 \$ \$2
80	110 120 121 130	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 330.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job IDC - CASING CREW/SERVICES Run 13-3/8" casing Rack, clean, drift 9-5/8" casing Rack, clean, drift 5-1/2" casing Rack, clean, drift 5-1/2" casing Run 5-1/2" casing S-1/2" CATE & Torque Turn IDC - OPEN HOLE LOGS	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25	\$/day \$/day \$/day \$/day \$/gal \$/bbl \$/job \$/job \$/job \$/fit \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108	days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000	\$1 \$
80 80	110 120 121 130 135	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC-FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC- RIG WATER Water for cement jobs & rig (including trucking) IDC- WATER FOR DRILLING FLUIDS all charged to 830.120 IDC- CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 1DC- CASING CREW/SERVICES Run 13-3/8" casing tement job IDC- CASING CREW/SERVICES Run 13-3/8" casing ement job 5-1/2" casing cement job 5-1/2" casing cement job IDC- CASING CREW/SERVICES Run 13-3/8" casing Rack, clean, drift 9-5/8" casing Rack, clean, drift 5-1/2" casing Run 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing 5-1/2" CRT & Torque Turn IDC- OPEN HOLE LOGS N/A	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25	\$/day \$/day \$/day \$/day \$/gal \$/bbl \$/job \$/job \$/job \$/fit \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108	days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885	\$1 \$
80 80 80	110 120 121 130	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC-FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC- RIG WATER Water for cement jobs & rig (including trucking) IDC- WATER FOR DRILLING FLUIDS all charged to 830.120 IDC- CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job IDC- CASING CREW/SERVICES Run 13-3/8" casing ement job 9-5/8" casing ement job 9-5/8" casing ement job 5-1/2" casing cement job IDC- CASING CREW/SERVICES Run 13-3/8" casing + CRT rental 9-5/8" Casing + CRT rental 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing 5-1/2" CRT & Torque Turn IDC- OPEN HOLE LOGS N/A IDC- CORING	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25	\$/day \$/day \$/day \$/day \$/gal \$/bbl \$/job \$/job \$/job \$/fit \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108	days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000	\$1 \$
80 80 80	110 120 121 130 135	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC-FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC- RIG WATER Water for cement jobs & rig (including trucking) IDC- WATER FOR DRILLING FLUIDS all charged to 830.120 IDC- CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 1DC- CASING CREW/SERVICES Run 13-3/8" casing tement job IDC- CASING CREW/SERVICES Run 13-3/8" casing ement job 5-1/2" casing cement job 5-1/2" casing cement job IDC- CASING CREW/SERVICES Run 13-3/8" casing Rack, clean, drift 9-5/8" casing Rack, clean, drift 5-1/2" casing Run 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing 5-1/2" CRT & Torque Turn IDC- OPEN HOLE LOGS N/A	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25	\$/day \$/day \$/day \$/day \$/gal \$/bbl \$/job \$/job \$/job \$/fit \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108	days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000	\$1 \$
80 80 80	110 120 121 130 135	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC-FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC- RIG WATER Water for cement jobs & rig (including trucking) IDC- WATER FOR DRILLING FLUIDS all charged to 830.120 IDC- CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job IDC- CASING CREW/SERVICES Run 13-3/8" casing ement job 9-5/8" casing ement job 9-5/8" casing ement job 5-1/2" casing cement job IDC- CASING CREW/SERVICES Run 13-3/8" casing + CRT rental 9-5/8" Casing + CRT rental 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing 5-1/2" CRT & Torque Turn IDC- OPEN HOLE LOGS N/A IDC- CORING	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25	\$/day \$/day \$/day \$/day \$/gal \$/bbl \$/job \$/job \$/job \$/fit \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108	days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000	\$1 \$
80 80 80	110 120 121 130 135	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC-FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC-RIG WATER Water for cement jobs & rig (including trucking) IDC-WATER FOR DRILLING FLUIDS all charged to 830.120 IDC-CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job IDC-CASING CREW/SERVICES Run 13-3/8" casing tement job 9-5/8" casing tement job 5-1/2" casing tement job 9-5/8" casing tement job 9-5/8" casing tement job IDC-CASING CREW/SERVICES Run 13-3/8" casing Rack, clean, drift 9-5/8" casing Rack, clean, drift 9-5/8" casing Run 9-5/8" casing + CRT rental 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing 5-1/2" CRT & Torque Turn IDC-CORING N/A	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25	\$/day \$/day \$/day \$/day \$/gal \$/bbl \$/job \$/job \$/job \$/fit \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108	days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000	\$1 \$
80 80	110 120 121 130 135	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 330.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 1DC - CASING CREW/SERVICES Run 13-3/8" casing Run 9-5/8" casing + CRT rental 9-5/8" Casing + CRT rental 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 9-5/2" casing S-1/2" casing S-1/2" casing IDC - OPEN HOLE LOGS N/A IDC - OPEN HOLE LOGS N/A IDC - WELDING	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25	\$/day \$/day \$/day \$/day \$/gal \$/bbl \$/job \$/job \$/job \$/fit \$/job \$/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108	days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft ft	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000 \$0	\$1
30 30 30 30 30 30	110 120 121 130 135	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 1DC - CASING CREW/SERVICES Run 13-3/8" casing ement job 1DC - CASING CREW/SERVICES Run 13-3/8" casing ement job 9-5/8" casing ement job 5-1/2" casing cement job IDC - CASING GREW/SERVICES Run 13-3/8" casing 9-5/8" casing Rack, clean, drift 9-5/8" casing Rack, clean, drift 5-1/2" casing Run 9-5/8" casing 5-1/2" Casing 5-1/2" Casing 5-1/2" CAT & Torque Turn IDC - OPEN HOLE LOGS N/A IDC - CORING N/A IDC - CRENTAL EQUIPMENT	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25 \$12,000	S/day S/day S/day S/gal S/day S/gal S/job S/job S/job S/job S/job S/job S/job S/job S/job S/job S/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108 1	days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft job	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000 \$0	\$1
330 330 330 330 330 330	110 120 121 130 135	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120 IDC - CRENENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 9-5/8" casing cement job 1DC - CASING CREW/SERVICES Run 13-3/8" cosing sing ement job 1DC - CASING CREW/SERVICES Run 13-3/8" cosing + CRT rental 9-5/8" cosing + CRT rental 9-5/8" CST cosing + CRT rental 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing FILZ" CRT & Torque Turn IDC - OPEN HOLE LOGS N/A IDC - CORING N/A IDC - WELDING N/A IDC - RENTAL EQUIPMENT misc surface rentals (pipe racks, light towers, flare stack, etc.)	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25 \$12,000	\$/day \$/day \$/day \$/day \$/gal \$/gal \$/gal \$/bbl \$/job \$/job \$/job \$/job \$/job \$/job \$/jt \$/ft \$/job \$/ft \$/ft \$/job \$/ft \$/ft \$/fob	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 1 1	days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft job days	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000 \$0 \$0	\$1
30 30 30 30 30 30	110 120 121 130 135	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 330.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 1DC - CASING CREW/SERVICES Run 13-3/8" casing Rack, clean, drift 9-5/8" casing Rack, clean, drift 5-1/2" casing Rack, clean, drift 5-1/2" casing Run 9-5/8" CASING + CRT rental 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing LOC - OPEN HOLE LOGS N/A IDC - OPEN HOLE LOGS N/A IDC - WELDING N/A IDC - WELDING N/A IDC - RENTAL EQUIPMENT misc surface rentals (pipe racks, light towers, flare stack, etc.) Loader	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$50,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25 \$12,000	S/day S/day S/day S/gal S/bbl S/job S/job S/job S/fit S/job S/ft S/job S/ft S/job S/ft S/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108 1	days days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft job days days days	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1
3330 3330 3330 3330	110 120 121 130 135	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (operating) BOILER (mobilization) IDC - RIG WATER Water For Cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 330.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job IDC - CASING CREW/SERVICES Run 13-3/8" casing ement job IDC - CASING CREW/SERVICES Run 13-3/8" casing + CRT rental 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing 5-1/2" CRT & Torque Turn IDC - OPEN HOLE LOGS N/A IDC - CORING N/A IDC - WELDING N/A IDC - RENTAL EQUIPMENT mics surface rentals (pipe racks, light towers, flare stack, etc.) Loader BOPE	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25 \$12,000	\$/day \$/day \$/day \$/gal \$/gal \$/bbl \$/job \$/job \$/job \$/job \$/ft \$/ft \$/ft \$/ft \$/ft \$/gal	7.50 7.50 7.50 7.50 3.500 500 1,000 0.50 \$6.00 1 2,761 1 15,108 15,108 1	days days gal/day gal/day gal bbls/ft \$\footnote{f} t ft job ft ft job days days days days days	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000 \$0 \$0	\$10
330 330 330 330 330 330	110 120 121 130 135 140 160 165	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (mobilization) IDC - RIG WATER Water for cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 830.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 1DC - CASING CREW/SERVICES Run 13-3/8" casing cement job 1DC - CASING CREW/SERVICES Run 13-3/8" casing + CRT rental 9-5/8" casing + CRT rental 9-5/8" casing + CRT rental 9-5/8" casing IDC - OPEN HOLE LOGS N/A IDC - OPEN HOLE LOGS N/A IDC - CRENTEN IDC - RENTAL EQUIPMENT miss surface rentals (pipe racks, light towers, flare stack, etc.) Loader BOPE Pason PVT equipment	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$50,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25 \$12,000	S/day S/day S/day S/gal S/bbl S/job S/job S/job S/fit S/job S/ft S/job S/ft S/job S/ft S/job	7.50 7.50 7.50 7.50 3,500 500 1,000 0.50 \$6.00 1 2,761 2,761 1 15,108 15,108 1	days days days gal/day gal/day gal bbls/ft \$/ft job ft ft job ft ft job days days days	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10 \$1 \$2 \$2
3330 3330 3330 3330 3330	110 120 121 130 135	solids control package & mud storage (equipment, personnel, materials) mud storage tanks & cuttings bins solids control loader IDC - FUEL & POWER Rig Diesel (operating) Boiler diesel Rig Diesel (operating) BOILER (mobilization) IDC - RIG WATER Water For Cement jobs & rig (including trucking) IDC - WATER FOR DRILLING FLUIDS all charged to 330.120 IDC - CEMENT & CEMENT SERVICES 13-3/8" casing cement job 9-5/8" casing cement job 5-1/2" casing cement job IDC - CASING CREW/SERVICES Run 13-3/8" casing ement job IDC - CASING CREW/SERVICES Run 13-3/8" casing + CRT rental 9-5/8" CRT Rack, clean, drift 5-1/2" casing Run 5-1/2" casing 5-1/2" CRT & Torque Turn IDC - OPEN HOLE LOGS N/A IDC - CORING N/A IDC - WELDING N/A IDC - RENTAL EQUIPMENT mics surface rentals (pipe racks, light towers, flare stack, etc.) Loader BOPE	\$4,200 \$1,500 \$350 \$5.50 \$5.50 \$5.50 \$5.00 \$36,000 \$40,000 \$4,500 \$1.50 \$2.50 \$6,000 \$0.50 \$1.25 \$12,000	\$/day \$/day \$/day \$/gal \$/gal \$/bbl \$/job \$/job \$/job \$/job \$/ft \$/ft \$/ft \$/ft \$/ft \$/gal	7.50 7.50 7.50 7.50 3.500 500 1,000 0.50 \$6.00 1 2,761 1 15,108 15,108 1	days days gal/day gal/day gal bbls/ft \$\footnote{f} t ft job ft ft job days days days days days	7.50 0.0 15108.0	days days days ft	\$31,500 \$11,250 \$2,625 \$144,375 \$20,625 \$0 \$37,770 \$0 \$36,000 \$50,000 \$130,648 \$4,500 \$4,142 \$6,903 \$6,000 \$7,554 \$18,885 \$12,000 \$0 \$0	\$10

		Inspection / repair /recut (DP rental included in rig's day rate)	\$15,000	\$/well	1	well			\$15,000	
830	183	IDC - BOPE RENTALS								\$3,80
		Rotating Head Rental + rubbers	\$150	\$/day	7.50	days	\$1,500	\$/well	\$2,625	
		Choke & flare	\$150	\$/day	7.50	days			\$1,125	
830	190	IDC - TRANSPORTATION								\$10,00
		misc. transporation & hot shot	_						\$5,000	
		transport rig camp, drill pipe, mud handling equipment							\$5,000	
830	200	IDC - COMMUNICATIONS								\$2,40
		internet for rig	\$150	\$/day	7.5	days			\$1,125	
		hand-held radios, phones, printer/scanner/fax	\$170	\$/day	7.5	days			\$1,275	
830	210	IDC - CONTRACT LABOR								\$41,700
		drilling consultant	\$1,850	\$/ea/day	7.50	days	2	ea.	\$27,750	
		drilling superintendent	\$1,850	\$/ea/day	7.50	days	1	ea.	\$13,875	
830	215	IDC - CREW QUARTERS								\$9,40
		trailer houses (includes servicing) for on-site personnel	\$1,250	\$/day/ea	7.50	days			\$9,375	
830	220	IDC - CONSULTING ENGINEER								\$1
		Moblize Drilling Analytics	\$0	\$/day/ea	7.50	days			\$0	
830	230	IDC - CONSULTING GEOLOGIST								\$1,80
		TD Geo Steering	\$600	\$/day/ea	3.00	days			\$1,800	
830	260	IDC - MISCELLANEOUS								\$20,000
		pit cleaning, other misc services							\$20,000	
830	270	IDC - PLUGGING & ABANDOMENT								\$1
		N/A							\$0	
830	280	IDC - SURFACE DAMAGES								\$(
		N/A							\$0	
830	310	IDC - LAYDOWN MACHINE								\$
		N/A							\$0	
830	320	IDC - NU/ND/BOP TEST/WH SERV.								\$20,00
		BOP test	\$5,000	\$/test	2	tests			\$10,000	
		Service tech to land 9-5/8" and 5-1/2" casings	\$5,000	\$/job	2	jobs			\$10,000	
830	330	IDC - GYRO								\$0

Page											
Page	830	480	N/A IDC - CUTTINGS DISPOSAL							\$0	Ć74
Series of the standard probability of the standard probabi	830	480	dispose of cuttings (including dillution of high chlorides & OBM Charges)	\$20.00	\$/yd	714	yds			\$14,285	\$74
Manufachamen 1908	830	481	trucking & truck clean outs IDC - LIQUIDS DISPOSAL	\$1,250	\$/load	48	loads			\$60,000	\$16
Section 1988	830	401	dispose of fluids (including dillution of high chlorides)	\$20.00	\$/bbl	500	bbls			\$10,000	910
March 1968 1969	830	482	trucking & truck clean outs IDC - OTHER DISPOSAL	\$1,250	\$/load	5	loads			\$6,250	\$12
Mary Board Mar	030	402	dispose of cement returns	\$14.00	\$/bbl	250	bbls			\$3,500	312
Mary			Other mire disposal (trach atc.)	\$1,250	\$/load	3	loads				
Second Property of the Prope	830	290	IDC - CONTINGENCIES							\$5,000	
SCHEMEN STATE OF THE PROPERTY			0%				20 INTAN	CIBLE	DILLING CO.		Ć1 C22
Mathematical						}	30 INTAN	GIBLE L	KILLING CO	SISTOTAL	\$1,622,
Comment	850	10	TDC - CONDUCTOR PIPE								
## 150 Part	850	20	none TDC - SURFACE CASING							\$0	\$30
1,25 1,25			13-3/8", 54.5#, J55, STC casing	\$82.00	\$/ft	350	ft			\$28,700	
Page	850	25	TDC - INTERMEDIATE CASING 9-5/8", 36.0#, J-55, LTC casing	\$53.00	\$/ft	2.761	ft			\$146.333	\$157
STORM CARRIES 1	850	30	TDC - LINERS	70000	+/)-	2): 02	7-				
Part	850	40	N/A TDC - PRODUCTION CASING							\$0	\$703
SERION			5-1/2", 20.0#, P110, GBCD								, , , ,
March Marc	350	50	marker jts TDC - CASING HEADS & SPOOLS	\$780.00	\$/ea	6.0	ea			\$5,101	\$65
Management 1			13-3/8" x 9-5/8" x 5-1/2" (Antelope Uni-Head assembly)	\$65,000	\$/ea	1	ea			\$65,000	Ţ OS
SAME DESCRIPTION 1	350	60	TDC - LINERS & HANGERS N/A							\$0	
SECONOMICATION	350	90	TDC - MISCELLANEOUS EQUIPMENT							,	
sequence 5,0,000 6/m 2 cm 5,000 6/m 2 cm 5,000 5/m 2 cm 5 cm 5/m	350	100	N/A TDC - FLOAT EQUIPMENT							\$0	\$52
Section Sec		200	13-3/8" float equipment								432
Section Sect			13-3/8" centralizers (average 1 per jt)								
Section Sect			9-5/8" float equipment 9-5/8" centralizers (average 1 per jt)								
Second			5-1/2" centralizers (average 1 per jt)	\$40	\$/ea	350	ea			\$14,000	
			5-1/2" toe-initiation sleeve 5-1/2" float equipment								
Section			5-1/2" casing floatation sub	\$10,000							
19	50	13	service tech for toe sleeves & floatation sub TDC - CONTINGENCIES	\$5,000	\$/ea	1	ea			\$5,000	
The Michael's Statement of Edwyr	, o	15	0%							\$0	
Manny flor operations 3 stops \$1,000							850 TAN	GIBLE D	RILLING CO	STS TOTAL	\$1,010
Manny flor operations 3 stops \$1,000	40	30	ICC - LOCATION & ROADS								Ś
SAME	1		Traffic control duirng frac operations + 3 days	\$1,000	\$/day	8	days			\$8,000	
Section Sect	10	50	ICC - RIG MOBILIZATION	44.000	61					44.000	\$1
STORM NO 1			mob running production AD 980 mobilization					5	wells		
\$10,000 \$10,00	10	55	ICC - COMPLETION RIG								\$13
SERVICES STANCES STA			Run production (well Service Rig) Drill out plugs (AD 990) 15 plugs / day + 2 days (\$14K/day + appillany charges)				-				
Section Sect			Drill out (AD 980), mob time (3 days first/last well, 1 day middle wells)								
STATAL	40	70	ICC - FISHING SERVICES							- 10	
mode frot clories \$25,000 \$7,00d \$ wells \$ \$3,000 \$ wells \$ \$3,000 \$ \$ \$ wells \$ \$3,000 \$ \$ \$ \$ wells \$ \$3,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40	90	none ICC - TANK RENTAL							<u>\$0</u>	\$3
Marting parks from chilling of flows between froc & dishlound) \$500 \$760 \$30.0 \$409 \$5.000	1		mob and de-mob frac tanks				wells			\$5,000	
SERVICES S18,000 S1,000 S1,000 S1,000 S1,000 S18,000	1 .5		AST trucking, install, rental (rental per tank per pad)								
Section Sect	40	100	ICC - WIRELINE SERVICES	 	γγuuy	30.0	uuys		wells	73,000	\$18
An Dissipation S. 15.00 S.	1 10	110	perforate & set frac plugs ICC - FUEL & POWER	\$4,200	\$/stage	43	stages			\$180,600	\$27
\$1,50	+0	110	Diesel fuel for AD 980	\$3.50	\$/gal	2,000	gal/day	8	days	\$56,000	321
Collection Sp.10	1		Diesel fuel for frac spread (8,000 gal/day)								
NAMUNG State Sta	1		Diesel for camp equipment frac shack fuel distribution					57	days		
Section Sect	10	120	ICC - WATER/HAULING								\$1,18
State Stat	1 1		Water for frac (frac pond) Water transfer pre-frac (equipment, pumps, line)				. 5		_		
re during flowback (equipment, pumps, line) Linus (fire pand) MSW) S.2.5 Sribbl Linus (box pand)	1		Vac truck rental on pad (during frac)						wells/ pau		
House King pand WSW South 1 well S.2.520 South 1 well S.2.520 South Sou	1		Water transfer during frac (equipment, pumps, line)								
So So So So So So So So	1		Water transfer during flowback (equipment, pumps, line) Water for drill-outs (frac pond / WSW)								
SQ SQ SQ SQ SQ SQ SQ SQ	ı		Fresh water for testing lay-flat (includes trucking)								
Second Part	10	150	ICC - DIRT WORK none							én	
UPERVISOR	10	160	ICC - WELDING							ŞU	
State Stat	10	4	none							\$0	4-
Part	10 !	170	ICC - FIELD SUPERVISOR well site supervisor (pre-frac)	\$1,850	\$/day	2	ea.	3	days	\$11,100	ŞS
Servisor (run production) S1,850 S/day 1 ea. 1 days S1,850			well site supervisor (frac)	\$1,850	\$/day	4	ea.	5	days	\$37,000	
Section			well-site supervisor consultant & superintendent (drill-out)								
tools, personnel for cleanout BHA (daily rental) \$2,500 \$5/day 5 days \$12,500 tools, personnel for cleanout BHA (repair, redress, mileage, other one-time charges) \$15,000 \$5/day 5 days \$15,000 tools, personnel for cleanout BHA (repair, redress, mileage, other one-time charges) \$15,000 \$5/day 5 days \$15,000 tools, personnel for cleanout BHA (repair, redress, mileage, other one-time charges) \$15,000 \$5/day 5 days \$17,500 tools, personnel for cleanout BHA (repair, redress, mileage, other one-time charges) \$15,000 \$5/day \$5 days \$17,500 tools, personnel for cleanout BHA (repair, redress, mileage, other one-time charges) \$15,000 \$5/day \$5 days \$17,500 tools, personnel for cleanout BHA (repair, redress, mileage, other one-time charges) \$15,000 \$5/day \$8 days \$24,000 tools, personnel for cleanout BHA (repair, take, see the containment, loader, pason EDR, valves, etc.) \$5,500 \$5/day \$8 days \$44,000 tools, personnel for cleanout BHA (repair, take, see the containment, loader, pason EDR, valves, etc.) \$5,500 \$5/day \$9 days \$9 wells/pad \$33,900 \$9 wells/pad \$15,000 \$9 wells/pad \$	10	180	well-site supervisor (run production) ICC - RENTAL EQUIPMENT	\$1,850	ş/aay	1	ea.	1	uays	\$1,850	\$16
State Stat			Motors, bits, tools, personnel for cleanout BHA (daily rental)								
Satistical Sat			Motors, bits, tools, personnel for cleanout BHA (repair, redress, mileage, other one-time charges) Agitator Rental								
Section Sect			HZT pipe rental								
Specific			solids control equipment, tanks, & transfer pumps during drillout Other miss centrals for drill-out ons (light plants, ROPE containment, loader, Pason FDR, values, etc.)								
Service Serv	!		Other misc rentals for arili-out ops (light plants, BOPE, containment, loader, Pason EDR, valves, etc.) Other rentals for frac, water transfer, flowback ops (light towers, forklift, porta-potty, etc.)					5	wells/pad		
State Stat	10	181	ICC - FRAC HD RENTALS & SERVICE		610						\$9
Sample S			Frac head, valve, zipper manifold, greasing (frac + 3 days) Frac head, valve, zipper manifold - Repairs & damages								
PUMP EQUIPMENT SQ SQ SQ SQ SQ SQ SQ S	0	184	ICC - FOAM/NITROGEN UNITS	+==,000	,,						
SQ SQ SQ SQ SQ SQ SQ SQ	10	185	None ICC - RENTAL PUMP EQUIPMENT							\$0	
Mail	-	103	None							\$0	
Second S	10	190	ICC - TRANSPORTATION								
Second Paris Seco	10	200	None - use 840.420 ICC - COMMUNICATION							\$0	Ś
Sefe Pumps & Monitor Lay-Flat (pre-frac & frac & post frac) \$2,000 \$/day 49 days 5 wells/pad \$19,600 \$1,200	33		Internet and communications	\$200	\$/day	57	days	5	wells/pad	\$2,280	
\$1,200	10	210	ICC - CONTRACT LABOR Operate Transfer Pumps & Manitar Lay-Flat (pre-frac & frac & post frac)	\$2,000	¢/dav	40	days	c	wells/pad	\$10 600	\$2
per wellhead hook-ups, etc \$7,500 \$/job 1 job \$7,500 QUARTERS \$ <td< td=""><td>•</td><td></td><td>Operate Transfer Pumps & Monitor Lay-Flat (pre-frac & frac & post frac) WH Techs for landing tbg hangers</td><td></td><td></td><td></td><td></td><td>5</td><td>wells/pad</td><td></td><td></td></td<>	•		Operate Transfer Pumps & Monitor Lay-Flat (pre-frac & frac & post frac) WH Techs for landing tbg hangers					5	wells/pad		
### \$750	40		Misc. labor for wellhead hook-ups, etc								
AANEOUS \$0	10 33	215	ICC - CREW QUARTERS Housing & Offices	\$750	\$/day	57	davs	5	wells/nad	\$8.550	\$
		260	ICC - MISCELLANEOUS	7,30	y, uay		aays	J	, c.i.s, pau		
WAD UNIT	10	240	None							\$0	
\$0	0.33 840 840		Housing & Offices ICC - MISCELLANEOUS	\$750	\$/day	57	days	5	wells/pad	\$0	

840 320 ICC - CASING CREWS & SERVICE

Nor

ėn.

840	330	ICC - PERFORATING								\$0
		none - use 840.100							\$0	
840	340	ICC - ACIDIZING								\$0
		none							\$0	
840	345	ICC - CHEMICAL TREATING								\$80,000
		Horizon Aphron system drill-out (including all treatment chemicals)	\$15,000	\$/day	5	days			\$75,000	
		H2S scavenger (production)	\$5,000	\$/well	1	lat ft			\$5,000	
840	350	ICC - FRACTURING								\$1,741,500
1		slickwater	\$40,500	\$/stage	43	stages			\$1,741,500	. , , ,
840	360	ICC - SQUEEZING & PLUG BACK	, ,,,,,,	,,						\$
		none							\$0	
840	370	ICC - TUBULAR INSPECTION								\$15,200
0.10	5,0	HZT inspection & repairs	\$1.00	\$/ft	15,108	ft			\$15,108	V 10,10
840	380	ICC - PRODUCTION TESTING	Ş1.00	7/][13,100	Jt			713,100	\$73,00
1	300	flowback: equpment & personnel	\$10,000	\$/day	14	days	5	wells	\$28,000	773,00
1		flowback: equipment & personnel (during drill-out operations)	\$5,000	\$/day	8		3	wells	\$40,000	
						days				
		flowback iron replacement (from drill-out ops)	\$5,000	\$/well	1	well			\$5,000	40.50
840	400	ICC - ROUSTABOUT SERVICES							44.444	\$2,50
0.5		misc. services							\$2,500	4
840	410	ICC - PUMPING SERVICES								\$6,50
1		Pump down services during toe prep	\$6,500	\$/day	1	days			\$6,500	
840	420	ICC - TRUCKING								\$34,00
1		trucking for rental lay flat	\$40,000	\$/pad	5	wells			\$8,000	
0.5		misc. hot shot services							\$15,000	
0.5		trucking for flowback equipment	\$15,000	\$/pad	5	wells			\$3,000	
0.5		trucking for housing & other equipment	\$15,000	\$/pad	5	wells			\$3,000	
1		trucking for dill-out equipment	\$25,000	\$/pad	5	wells			\$5,000	
840	430	ICC - TANK RENTAL & TRANSPORT								\$
		None - use 840.090							\$0	
840	470	ICC - CASED HOLE LOGS								\$6,80
		CBL on 5-1/2"							\$6,800	
840	480	ICC - DISPOSAL								\$20,30
		solids disposal (0.7 lateral casing volume)	\$10.50	\$/yd	34	yd			\$352	,
		solids disposal (trucking, 14 yds/load)	\$850	\$/load	3	loads			\$2,550	
		liquids trucking & disposal (0.5 bbls/lateral ft to disposal, process rest 1.0 bbl/ft through CTB)	\$3.50	\$/bbl	4,954	bbls			\$17,337	
840	490	ICC - BRIDGE PLUGS	73.30	7,001	4,554	DDIS			717,337	\$35,700
1	430	frac plugs (composite)	\$800	\$/ea	43	ea			\$34,400	333,70
1		kill pluq	\$1,250	\$/ea	1				\$1,250	
	500	ICC - PUMPING UNIT SERVICE&REP	\$1,250	\$/ea	1	еа			\$1,250	\$1
840	500	ICC - POWPING UNIT SERVICE&REP							40	Şi
									\$0	
840	510	ICC - SUCKER ROD REPAIR								\$(
									\$0	
840	520	ICC - ROD PUMP & REPAIR								\$
									\$0	
840	13	ICC - CONTINGENCIES								\$1
		0%							0	
					840 IN	ITANGIBI	LE COMPI	LETION CO	STS TOTAL	\$4,243,300
860	25	TCC - ELECTRICAL DIST. SYSTEMS								\$
1									\$0	
860	70	TCC - OTHER WELLHEAD EQUIPMENT								\$4,500

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

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 180356

CONDITIONS

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way, Suite 525	Action Number:
Centennial, CO 80111	180356
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created B	/ Condition	Condition Date
kpickfor	Adhere to previous NMOCD Conditions of Approval	1/27/2023