om 3160-3 April 2004) DEPARTMENT OF THE INTERI BUREAU OF LAND MANAGEM					340 /	~
April 2004) UNITED STATES					/ /	4
	OCD Hob	as	OMB N	APPROVED to. 1004-0137 March 31, 20		//
BUREAU OF LAND MANAGEM	IOR HOBBS	04fi	5. Lease Serial No. NMNM-12413	3A	,	
	OP PERMIT	<u> </u> 4	6. If Indian, Allotee		lame	
APPLICATION FOR PERMIT TO DRILL		ref)	N/A			_
Ia. Type of work: I DRILL REENTER	RECEI		7. If Unit or CA Agr	eement, Na	ne and No.	,
	Single Zone Multip	le Zone	8. Lease Name and SUN MCKAY		al #3H <	33192
2. Name of Operator NADEL AND GUSSMAN PERMIAN, L.L.C.	1556157		9. API Well No. 30-026	-41	192-	7
oor in minder in EED, South 500	ne No. (include area code) 2-682-4429		10. Field and Pool, or LUSK; BONI			
4. Location of Well (Report location clearly and in accordance with any State req	quirements.*)		11. Sec., T. R. M. or I	3lk. and Sur	vey or Area	_7
At surface 330' FNL, 1980' FWL - UL C At proposed prod. zone 330' FSL, 1980' FWL - UL N			SECTION 10	, T-19-S, I	R-32-Е	
 Distance in miles and direction from nearest town or post office* 25 MILES WEST OF HOBBS NM 			12. County or Parish LEA		13. State NM	_
5. Distance from proposed* 330FT 16. No location to nearest 16. No	b. of acres in lease	17. Spacin	g Unit dedicated to this	well		
property or lease line, ft. (Also to nearest drig. unit line, if any) 330FT 640		160				
to nearest well, drilling, completed	oposed Depth	20. BLM/I	BIA Bond No. on file			
applied for, on this lease, ft. 240ff Sun Mckay #1 13,9	912 MD, 9,500 TVD	NM#	2812			
1. Elevations (Show whether DF, KDB, RT, GL, etc.) 22 App 3667 GL -	proximate date work will star 06/15/2014	t*	23. Estimated duration 45 DAYS	on 		
24 . <i>A</i>	Attachments					
he following, completed in accordance with the requirements of Onshore Oil and	Gas Order No.1, shall be at	tached to the	s form:			
. Well plat certified by a registered surveyor. 2. A Drilling Plan.	4. Bond to cover the ltem 20 above).	e operation	is unless covered by ar	n existing b	ond on file (s	ee
b. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).		specific info	ormation and/or plans a	s may be re	quired by the	
5. Signature	Name (Printed/Typed)			Date		<u> </u>
itle	JASON GOSS			12/1	2/2013	
DRILLING ENGINEER					<u></u>	-90 14
pproved by (Siepanure) Neve Caffey	Name (Printed/Typed)			Date JU	N - 9	2014
	Office CARLS	BAD FIEL	D OFFICE			
itle FIELD MANAGER				entitle the a	mlicantto	
	requitable title to those right	s in the sub			DDHCaller	
pplication approval does not warrant or certify that the applicant holds legal or onduct operations thereon.			·			
pplication approval does not warrant or certify that the applicant holds legal or	A any person knowingly and w	PPRO	VAL FOR TV	VO YE	ARS	
application approval does not warrant or certify that the applicant holds legal or onduct operations thereon. Conditions of approval, if any, are attached. itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for a tates any false, fictitious or fraudulent statements or representations as to any ma	A any person knowingly and w	PPRO	VAL FOR TV	VO YE	ARS	
Application approval does not warrant or certify that the applicant holds legal or onduct operations thereon. Conditions of approval, if any, are attached. itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for a lates any false, fictitious or fraudulent statements or representations as to any ma (Instructions on page 2)	A any person knowingly and w	PPRO Villfully to m	VAL FOR TV	VO YE	ARS	
Application approval does not warrant or certify that the applicant holds legal or onduct operations thereon. Conditions of approval, if any, are attached. itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for a lates any false, fictitious or fraudulent statements or representations as to any ma (Instructions on page 2)	A any person knowingly and watter within its jurisdiction.	PPRO villfully to m ON	VAL FOR TV ake to any department	VOYE	ARS of the United	
Application approval does not warrant or certify that the applicant holds legal or onduct operations thereon. Conditions of approval, if any, are attached. itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for a lates any false, fictitious or fraudulent statements or representations as to any ma (Instructions on page 2)	A any person knowingly and w atter within its jurisdiction.	PPRO rillfully to m ON SE	VAL FOR TV	VOYE	ARS of the United FOR	= OVAL
Interplication approval does not warrant or certify that the applicant holds legal or onduct operations thereon. Conditions of approval, if any, are attached. Interplications of approval, if any, are attached. Interplications of the second	A any person knowingly and w atter within its jurisdiction. IL CONSERVATI ARTESIA DISTRICT JUN 1 6 2014	PPRO rillfully to m ON SE	VAL FOR TV ake to any department	VOYE	ARS of the United FOR	= OVAL
Application approval does not warrant or certify that the applicant holds legal or onduct operations thereon. Conditions of approval, if any, are attached. itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for a lates any false, fictitious or fraudulent statements or representations as to any ma (Instructions on page 2) Capitan Controlled Water Basin MUST BE IN COMPLIANCE WITH	A any person knowingly and w atter within its jurisdiction. ARTESIA DISTRICT JUN 1 6 2014 RECEIVED	PPRO rillfully to m ON SE CO	VAL FOR TV ake to any department	VOYE	ARS of the United FOR	= OVAL
Application approval does not warrant or certify that the applicant holds legal or onduct operations thereon. Conditions of approval, if any, are attached. itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for a lates any false, fictitious or fraudulent statements or representations as to any ma (Instructions on page 2) Capitan Controlled Water Basin MUST BE IN COMPLIANCE WITH	A any person knowingly and w atter within its jurisdiction. IL CONSERVATI ARTESIA DISTRICT JUN 1 6 2014	PPRO rillfully to m ON SE CO	VAL FOR TV ake to any department	VOYE	ARS of the United FOR	= OVAL

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HOBBS OCD

OPERATOR CERTIFICATION

JUN 182014

RECEIVED

I certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal Laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true, and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. <u>Executed the 10 day of December 2013.</u>

Name: Jason Goss Position: Drilling Engineer Address: 601 N. Marienfeld Suite 508 Telephone: 432-682-4429 Email: jgoss@naguss.com

Signed:

DRILLING AND OPERATIONS PLAN NADEL AND GUSSMAN PERMIAN, L.L.C. SUN MCKAY FEDERAL #3H Surface: 330' FNL & 1980' FWL, UL C BHL: 330' FSL & 1980' FWL, UL N Sec 10, T-19-S, R-32-E Lea County, New Mexico

- 1. Geological Surface Formation: Permian and Quaternary Alluvium.
- 2. Horizontal Oil well. No pilot hole, depth to Fresh Water 800'. Elevation 3667'

3. TOPS OF IMPORTANT GEOLOGICAL MARKERS: TVD

Rustler	1100'
Top Salt	1300'
BX (base salt)/Tansill	2700'
Yates	3000'
7 Rivers	3438'
Queen	3850'
Grayburg	3950'
San Andres	4750'
Delaware Mountain Group	5200'
Bone Springs Ls	7150'
1 st Bone Springs Sand	7226'
2 nd Bone Springs Sand	9200'
Bone Springs Target	9500'

4. Estimated Depth of Anticipated/Possible Water, Oil or Gas:

Santa Rosa	0-800'	Fresh Water from WAIDS database
Yates	3000'	Oil, gas and water
Delaware	5200'	Oil, gas and water
Bone Springs	7150'	Oil, gas and water
	١	-

1350

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water will be protected by setting 13 3/8" casing at 1150' and circulating cement back to surface, all other intervals will be isolated by the 9 5/8 intermediate and 7" production casing.



5. Proposed Casing Program

HOLE SIZE	CASING SIZE	WT./GRADE	THREAD/COLLAR	SETTING DEPTH	TOP CEMENT
Conductor	20"	94# H-40	8rd STC	60'	Surface
17.5"	13 3/8" (new)	54.5# J-55	8rd STC	4150' 1350' 3,000' 3350'	Surface
12.25"	9 5/8" (new)	40# J-55	8rd LTC	3,000, 3 5 00	Surface
8.75"	7" (new)	26# P-110HC	8rd BTC	9,600'	2,500'
6.125"	4 1/2" (new)	13.5# P-110HC	8rd LTC	9,300'-13,900'	N/A**

** Packer Plus completion 20 stages. No cement, packers and frac port open hole completion with liner hanger.

MINIMUM SAFETY FACTORS:	BURST 1.125	COLLAPSE 1.125	TENSION 1.8
	DUNJI I.IZJ		

ALL CASING WILL BE NEW API APPROVED

CEMENT PROGRAM-ALL CEMENT BLENDS WILL BE TESTED TO BLM MINIMUM REQUIREMENTS.

A. 133/8	" SURFACE	CEMENT TO SURFACE 100% EXCESS OVER CALCULATED
		1200 SACKS CLASS "C"+2%CACL+.25# CELLO-FLAKE+.25% DEFOAMER, 14.8 PPG, 1.35 YIELD, 6.34 GAL/SK
B. 95/8"	INTERMEDIATE	CEMENT TO SURFACE 50% EXCESS OVER CALCULATED
		LEAD 650 SACKS CLASS "C" 35/65 +6% BENTONITE+5% SALT+.25% DEFOAMER 12.8 PPG, 1.9 YIELD, 11.2 GAL/SK
		TAIL 200 SACKS CLASS "C" + .25% DEFOAMER, 14.8 PPG, 1.33 YIELD, 6.34 GAL/SK See COA
C. 7"	PRODUCTION	CEMENT TO 2,500" (WILL RUN FLUID CALIPER) 25% EXCESS OVER FLUID CALIPER, OR 50% OVER CALCULATED.
		LEAD 850 SACKS CLASS C 50/50 +10% BENTONITE +.15% C-20 RETARDER +3# STAR SEAL +.3% C-12 FLUID LOSS+3% SALT+.25% DEFOAMER, 11.8 PPG, 2.37 YIELD, 13.52 GL/SK
		TAIL 250 SACKS CLASS "H" STAR BOND+.5% FL-10+.2%C-20, +3# GILSONITE+.25% DEFOAMER+3% SALT 13.2 PPG, 1.6 YIELD, 13.5 GAL/SK

SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT: (EXHIBIT #5)

A 2000# WP Annular will be installed after running the 13-3/8" casing. A 3,000# WP Double Ram BOP and 3,000 annular will be installed after running the 9-5/8" and 7" casing. Pressure test will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOP's will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use. 7" and 9-5/8" BOP will be tested to 3000# and the annular to 1500# with a third party testing company before drilling below each shoe. If operations last more than 30 days from 1st test, will test again as per BLM Onshore Oil and Gas order #2.

MUD PROGRAM:

1350'

Spud and drill 17 ½" surface hole with **fresh water (8.4 to 8.7 ppg)** to a depth of approx 1450⁺. Control lost circulation with paper and LCM pills. Viscosity 28-55, no fluid loss control. Fresh water gel sweeps.

Drill 12 ¹/₄" hole from 1150 to 3,000 with Brine (9.5 to 10.0 ppg). Control lost circulation with paper and LCM pills. Viscosity 28-30, no fluid loss control. Salt water gel sweeps.

Drill 8 ³/₄" production hole from 3,000 to **9,600**' (9,022 TD of vertical hole) with **fresh water (8.4 to 8.7 ppg) or cut brine (8.4 to 9.0 ppg)**. Control lost circulation with paper and LCM pills. From 6,000' to TD (8.7 to 9.0 ppg), control filtrate with starch and water loss additives. Clean hole with pre-hydrated freshwater sweeps as necessary. System properties: viscosity 32-24, fluid loss <20 ml/30min.

Drill 6 1/8" horizontal production hole from 9,600'-13,912' with **fresh water (8.4-8.7 ppg)**, control filtrate and increase viscosity with Xanthan gum and Poly Anionic Cellulose. Clean hole with high viscosity sweeps and lubricants as necessary. System Properties viscosity 32-34, fluid loss <20 ml/30min.

All necessary mud products for weight addition and fluid loss control will be on location at all times. Mud program subject to change due to hole conditions.

Mud monitoring system: Mud will be maintained and checked daily for mud weight, viscosity, API water loss, pH, etc. Additional electronic monitoring will include a pit volume totalizer to monitor mud volume in active system, pump rate, and mud return flow percentage. H2S monitors and alarms will be located on rig floor, shale shakers, and mud tanks (see rig plat). Gas chromatograph with monitor hydrocarbon gas content of mud from 3,000' to TD. Third party corrosion company will utilize H2S/oxygen scavengers to monitor for corrosion and limit damage to tubulars.

Auxiliary Equipment

B.

- A. A Kelly cock will be in the drill string at all times.
 - A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times
 - Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the $4 \frac{1}{2}$ " liner is run and set and rigging down operations have begun.

TESTING, LOGGING & CORING PROGRAM:

- a. Testing: No DST's are expected.
- b. Open hole logs are planned for TD of vertical hole (KOP, 9,022).

- 1. Halliburton Triple Combo: Dual lateral log and gamma ray, compensated neutron, caliper log.
- c. Mud logging will take place from 3,000ft to TD 10ft samples
- d. Gyro survey will be run at KOP of 9,022'
- e. MWD (directional) and LWD (gamma) surveys will be taken from KOP (9022') to TD 13,912ft

POTENTIAL HAZARDS:



No significant hazards are expected, no abnormal pressures or temperatures are expected, **Expected pressure 4800 psi at 9500 ft from BHP test on Sun McKay Federal #1 7/18/1978. 4800 psi at 9,500 TVD**, expected temperature at 9,500 TVD is **144 deg F**. Lost circulation may occur, no H₂S is expected, but the operator will utilize a 3rd party H₂S monitoring package from 1150' to TD. No losses or H2s occurred in the Sun McKay #1 or the Sun McKay #2. If H2S is encountered the operator will comply with the provisions of onshore oil and gas order no 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well.

ANTICIPATED STARTING DATE & DURATION:

Nadel & Gussman Permian, LLC anticipates drilling operations to begin around June 15, 2014 and completed in approximately 45 days. An additional 15 days will be needed for completion activities. Road and location construction will begin after the BLM has approved the APD.

Jason Goss, Drilling Engineer Nadel & Gussman Permian, LLC

1/21/14

Date

Collision Report for Sun McKay Federal #3H

Number of wells inside dedicated acreage of Sun McKay Federal #3H: One

Sun McKay Federal #1

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Nadel and Gussman Permian, LLC

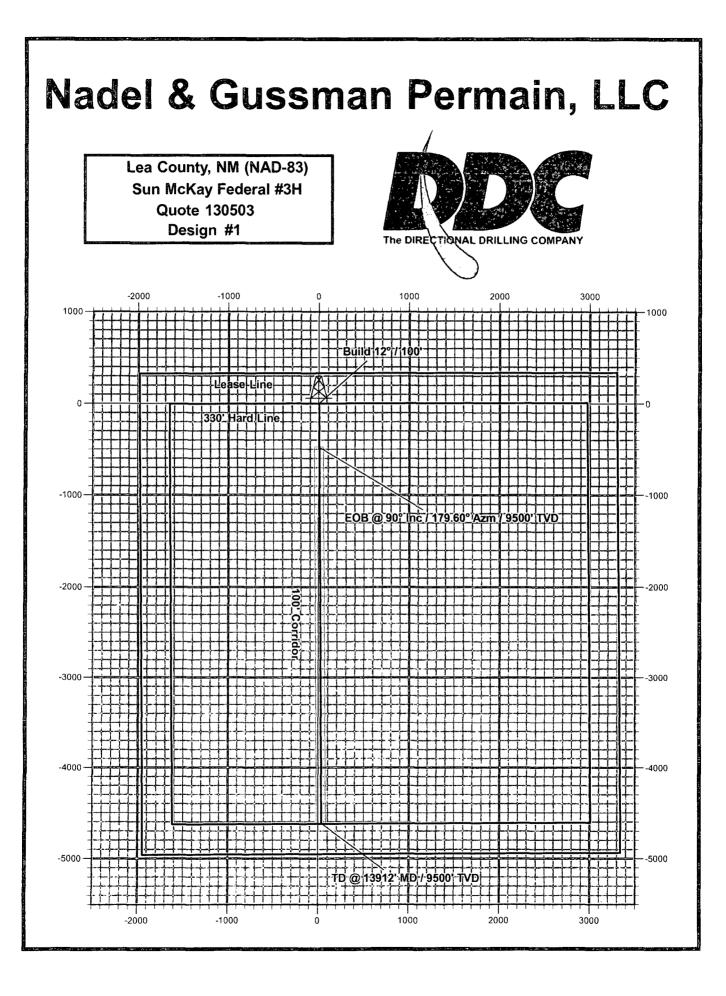
Sec. 10, T19S, R32E, UL F SHL: 1850 FNL & 1730 FWL

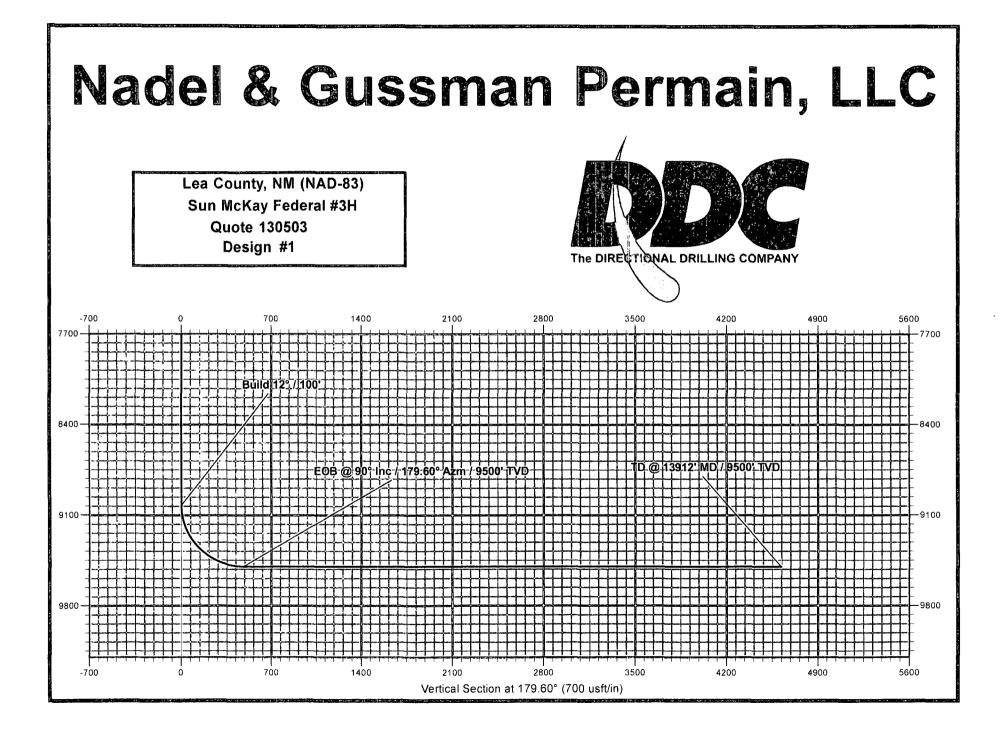
Wolfcamp Vertical Producer

TD: 13,000ft (Morrow), Plugged back to Wolfcamp 10,702ft

Summary:

Calculated course displacement for the Sun McKay Federal #1 at the target TVD (9,500ft) of the Sun McKay Federal #3H is 190.47ft. Planned horizontal path of Sun McKay Federal #3H will travel 240ft east of #1 surface location. Plan to maintain 25-50ft east of current plan when drilling past Sun McKay Federal #1 to eliminate any collision risk, will maintain a minimum distance of 265ft from the surface location of Sun McKay Federal #1.





Nadel & Gussman Permian, LLC

Lea County, NM (NAD-83) Sec 10,T19S, R32E Sun McKay Federal #3H

Wellbore #1

Plan: Design #1

DDC Curve Report

12 June, 2013



DDC Curve Report



13,912.1	90.00	179.60	9,500.0	-4,616.9	32.3	0.00	0.00	0.00	0.00	PBHL Sun McKay
9,772.5	90.00	179.60	9,500.0	-477.4		12.00	12.00		179.60	
9,022.5	0.00	0.00	9,022.5	0.0		0.00	0.00		0.00	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
Plan Sections	\$									
			(usft) 0.0		(usft) 0.0	•).0		(⁻). '9.60	
Vertical Secti	ion:	De	epth From (T	VD)	+N/-S (usft)		E/-W Isft)		ection (°)	
Version:			Phas	e:	PLAN	Tie	e On Depth:		0.0	
Audit Notes:										
Design	Desigi	n #1								
		IGRF2010	(6/12/2013	(°)	7.46	. (°) 60.53	()	1 T) 48,670
Magnetics	Мо	del Name	Sampl	e Date	Declin			Angle		itrength
Wellbore	Wellb	ore #1								
Position Unc	ertainty	0	.0 usft 🛛 ₩	ellhead Ele	vation:		Gr	ound Level:		3,667.0 us
Well Position	• +N/-S +E/-W			orthing: asting:		612,060.76 718,890.08		titude: ngitude:		32° 40' 52.580 I 103° 45' 22.527 V
Well		cKay Federal		:.		· · ·			•	
From: Position Unc	Ma	•	Easti	-	718,	890.08 usft 13-3/16 "	Longitude: Grid Conve	rgence:		103° 45' 22.527 V 0.31
Site Position		5, 1100, NOZĽ	- North	ning:	612,	060.76 usft	Latitude:	¢	· · ·	32° 40' 52.580 I
Site	Sec 1	0,T19S, R32E	=			•	· · • •.18	· . · ·		
Map System: Geo Datum: Map Zone:	North A	te Plane 1983 American Datu exico Eastern	um 1983		System D	Datum:	Μ	ean Sea Level		
Project	Lea C	Lea County, NM (NAD-83)				•				··· ·· · · · · · · · · · · · · · · · ·
Wellbore: Design:		pore #1 gn #1								
Nell:	Sun	Sun McKay Federal #3H				Calculation N		Minimum Curv	ature	
Project: Site:	1	Lea County, NM (NAD-83) Sec 10,T19S, R32E				erence: eference:		WELL @ 3667 Grid		,
Company:	indue	n a Gussman	Permian, LL	0	TVD Ref	ference:		WELL @ 3667	.0usft (Oriai	nai Well Elev)

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DDC Curve Report



Database: EDM 5000.1 Single User Db Local Co-ordinate Reference: Well Sun McKay Federal #3H Company: Nadel & Gussman Permian, LLC WELL @ 3667.0usft (Original Well Elev) TVD Reference: Project: Lea County, NM (NAD-83) MD Reference: WELL @ 3667.0usft (Original Well Elev) Site: Sec 10, T19S, R32E North Reference: Grid Well: Minimum Curvature Sun McKay Federal #3H Survey Calculation Method: Wellbore: Wellbore #1 Design: Design #1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rạte (°/100usft)	Turn Rate (°/100usft)
Build 12°/	100'								
9,022.5	0.00	0.00	9.022.5	0.0	0.0	0.0	0.00	0.00	0.00
9,030.0	0.90	179.60	9,030.0	-0.1	0.0	0.1	12.00	12.00	0.00
9,060.0	4.50	179.60	9,060.0	-1.5	0.0	1.5	12.00	12.00	0.00
9,090.0	8.10	179.60	9,089.8	-4.8	0.0	4.8	12.00	12.00	0.00
9,120.0	11.70	179.60	9,119.3	-9.9	0.1	9.9	12.00	12.00	0.00
9,150.0	15.30	179.60	9,148.5	-16.9	0.1	16.9	12.00	12.00	0.00
9 ,180.0	18.90	179.60	9,177.2	-25.7	0.2	25.7	12.00	12.00	0.00
9,210.0	22.50	179.60	9,205.2	-36.3	0.3	36.3	12.00	12.00	0.00
9,240.0	26.10	179.60	9,232.6	-48.7	0.3	48.7	12.00	12.00	0.00
9,270.0	29.70	179.60	9,259.1	-62.7	0.4	62.7	12.00	12.00	0.00
9,300.0	33.30	179.60	9,284.6	-78.4	0.5	78.4	12.00	12.00	0.00
9,330.0	36.90	179.60	9,309.2	-95.6	0.7	95.6	12.00	12.00	0.00
9,360.0	40.50	179.60	9,332.6	-114.4	0.8	114.4	12.00	12.00	0.00
9,390.0	44.10	179.60	9,354.8	-134.6	0.9	134.6	12.00	12.00	0.00
9,420.0	47.70	179.60	9,375.6	-156.1	1.1	156.1	12.00	12.00	0.00
9,450.0	51.30	179.60	9,395.1	-178.9	1.3	178.9	12.00	12.00	0.00
9,480.0	54.90	179.60	9,413.1	-202.9	1.4	202.9	12.00	12.00	0.00
9,510.0	58.50	179.60	9,429.6	-228.0	1.6	228.0	12.00	12.00	0.00
9,540.0	62.10	179.60	9,444.5	-254.0	1.8	254.0	12.00	12.00	0.00
9,570.0	65.70	179.60	9,457.7	-281.0	2.0	281.0	12.00	12.00	0.00
9,600.0	69.30	179.60	9,469.1	-308.7	2.2	308.7	12.00	12.00	0.00
9,630.0	72.90	179.60	9,478.9	-337.1	2.4	337.1	12.00	12.00	0.00
9,660.0	76.50	179.60	9,486.8	-366.0	2.6	366.0	12.00	12.00	0.00
9,690.0	80.10	179.60	9,492.9	-395.4	2.8	395.4	12.00	12.00	0.00
9,720.0	83.70	179.60	9,497.1	-425.1	3.0	425.1	12.00	12.00	0.00
9,750.0	87.30	179.60	9,499.4	-455.0	3.2	455.0	12.00	12.00	0.00
EOB @ 90	° Inc / 179.60° /	Azm / 9500' T	VD						
9,772.5	90.00	179.60	9,500.0	-477.4	3.3	477.5	12.00	12.00	0.00

Design Targets

Target Name

 hit/miss target 	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
PBHL Sun McKay Fee			9,500.0	-4,616.9	32.3	607,443.85	718,922.42	32° 40' 6.894 N	103° 45' 22.442 W
 pian misses targ 	et center by	4139.6usft	at 9772.5us	sft MD (9500	.0 TVD, -477	′.4 N, 3.3 E)			

- Rectangle (sides W100.0 H0.0 D4,144.6)

Plan Annotations

1	Measured	Vertical	Local Coor	dinates	
Ì	Depth	Depth	+N/-S	+E/-W	
1	(usft)	(usft)	(usft)	(usft)	Comment
	9,022.5	9,022.5	0.0	0.0	Build 12° / 100'
	9,772.5	9,500.0	-477.4	3.3	EOB @ 90° lnc / 179.60° Azm / 9500' TVD
	13,912.1	9,500.0	-4,616.9	32.3	TD @ 13912' MD / 9500' TVD

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Nadel & Gussman Permian, LLC

Lea County, NM (NAD-83) Sec 10,T19S, R32E Sun McKay Federal #3H

Wellbore #1

Plan: Design #1

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DDC Well Planning Report

, 12 June, 2013



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Database: Company: Project: Site: Well: Wellbore: Design:	Nadel & G Lea Count Sec 10,T1	y Federal #3H		Local Co-or TVD Referen MD Referen North Refer Survey Calc	WELL (WELL (Grid	in McKay Fed @ 3667.0usft @ 3667.0usft m Curvature	
Project	Lea County, NM (NAI	D- 83)					
Map System: Geo Datum: Map Zone:	US State Plane 1983 North American Datu New Mexico Eastern		System	Datum:		Mean Sea Level	
Site	Sec 10,T19S, R32E						
Site Position: From: Position Uncertain	Map ty:		Easting: Blot Radius:	612,060	0.76 usft Latitude: 718,890.08 usft 13-3/16 "	Longitude: Grid Convergend	e:
Well	Sun McKay Federal #	3H	,				
Well Position	+N/-S +E/-W	0.0 usft Northing: 0.0 usft Easting: 0.0 usft Wellhead B			0.76 usft Latitude: 0.08 usft Longitud Ground L		32° 40' 103° 45' 3,
Position Uncertain	ty	0.0 dsit Weinieau i	Lievation.		Croand E	evel.	0,
Wellbore	Wellbore #1						
Magnetics	Model Name	Sample Date		Declination (°)		Dip Angle (°)	Fie
	IGRF2010	6/12/2013		.,	7.46	60.	53
Design	Design #1						
Audit Notes:							
Version:		Phase:	PLAN	т	ie On Depth:	0.0	
Vertical Section:	Dept	h From (TVD) (usft) 0.0		+N/-S (usft) 0.0	+E/-W (usft) 0.0	Directi (°) 179.6	
Plan Sections Measured Depth	Inclination	Azimuth	Vertical Depth (usft)	+N/-:	S +E	/-W	Dogleg Rate
(usft)	(°)	(°)		(usfl	t) (u:	sft) (°/	100usft)
0.0		0.00		0.0	0.0	0.0	0.00
9,022.5		0.00	9,022		0.0 -477.4	0.0 3.3	0.00 12.00
9,772.5 13,912.1		179.60 179.60	9,500 9,500		-4,616.9	32.3	0.00
Planned Survey							
Mea	sured		Verti	ical Depth			Vert
De	epth Inclin sft) (°		uth	(usft)	+N/-S (usft)	+E/-W (usft)	Sec (us
Build 12°		0.00 9.30 21.30 33.30 45.30 57.30	0.00 179.60 179.60 179.60 179.60 179.60	9,022.5 9,099.7 9,195.9 9,284.6 9,361.9 9,424.3	0.0 -6.3 -32.6 -78.4 -141.6 -219.5		0.0 0.0 0.2 0.5 1.0 1.5

• 9,600.0	69.30	179.60	9,469.1	-308.7	2.2
9,700.0	81.30	179.60	9,494.5	-405.2	2.8
EOB @ 90° Inc / 179.60° A	zm / 9500' TVD				
9,772.5	90.00	179.60	9,500.0	-477.4	3.3
9,800.0	90.00	179.60	9,500.0	-505.0	3.5
9,900.0	90.00	179.60	9,500.0	-604.9	4.2
10,000.0	90.00	179.60	9,500.0	-704.9	4.9
10,100.0	90.00	179.60	9,500.0	-804.9	5.6
10,200.0	90.00	179.60	9,500.0	-904.9	6.3
10,300.0	90.00	179.60	9,500.0	-1,004.9	7.0
10,400.0	90.00	179.60	9,500.0	-1,104.9	7.7
10,500.0	90.00	179.60	9,500.0	-1,204.9	8.4
10,600.0	90.00	179.60	9,500.0	-1,304.9	9.1
10,700.0	90.00	179.60	9,500.0	-1,404.9	9.8
10,800.0	90.00	179.60	9,500.0	-1,504.9	10.5
10,900.0	90.00	179.60	9,500.0	-1,604.9	11.2
11,000.0	90.00	179.60	9,500.0	-1,704.9	11.9
11,100.0	90.00	179.60	9,500.0	-1,804.9	12.6
11,200.0	90.00	179.60	9,500.0	-1,904.9	13.3
11,300.0	90.00	179.60	9,500.0	-2,004.9	14.0
11,400.0	90.00	179.60	9,500.0	-2,104.9	14.7
11,500.0	90.00	179.60	9,500.0	-2,204.9	15.4
11,600.0	90.00	179.60	9,500.0	-2,304.9	16.1
11,700.0	90.00	179.60	9,500.0	-2,404.9	16.8
11,800.0	90.00	179.60	9,500.0	-2,504.9	17.5
11,900.0	90.00	179.60	9,500.0	-2,604.9	18.2
12,000.0	90.00	179.60	9,500.0	-2,704.9	18.9
12,100.0	90.00	179.60	9,500.0	-2,804.9	19.6
12,200.0	90.00	179.60	9,500.0	-2,904.9	20.3
12,300.0	90.00	179.60	9,500.0	-3,004.9	21.0
12,400.0	90.00	179.60	9,500.0	-3,104.9	21.7
12,500.0	90.00	179.60	9,500.0	-3,204.9	22.4
12,600.0	90.00	179.60	9,500.0	-3,304.9	23.1
12,700.0	90.00	179.60	9,500.0	-3,404.9	23.8
12,800.0	90.00	179.60	9,500.0	-3,504.9	24.5
12,900.0	90.00	179.60	9,500.0	-3,604.9	25.2
13,000.0	90.00	179.60	9,500.0	-3,704.9	25.9
13,100.0	90.00	179.60	9,500.0	-3,804.9	26.6
13,200.0	90.00	179.60	9,500.0	-3,904.9	27.4
13,300.0	90.00	179.60	9,500.0	-4,004.9	28.1
13,400.0	90.00	179.60	9,500.0	-4,104.9	28.8
13,500.0	90.00	179.60	9,500.0	-4,204.9	29.5
13,600.0	90.00	179.60	9,500.0	-4,304.9	30.2
13,700.0	90.00	179.60	9,500.0	-4,404.9	30.9
13,800.0	90.00	179.60	9,500.0	-4,504.9	31.6
13,900.0	90.00	179.60	9,500.0	-4,604.9	32.3
13,912.1	90.00	179.60	9,500.0	-4,616.9	32.3
10,312.1	30.00	175.00	3,000.0		02.0

Planned Survey

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Measured			Vertical Depth			Vert
Depth (usft)	Inclination (°)	Azimuth (°)	(usft)	+N/-S (usft)	+E/-W (usft)	Seci (us
	• •	••		• •	. ,	

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Eas (us
PBHL Sun McKay Federal #3H - plan hits target center	90.00	179.60	9,500.0	-4,616.9	32.3	607,443.85	7

plan hits target center
 Rectangle (sides W100.0 H0.0 D4,144.6)

Plan Annotations

Measured	Vertical	Local Co	ordinates	
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment

9,022.5	9,022.5	0.0	0.0 Build 12° / 100'
9,772.5	9,500.0	-477.4	3.3 EOB @ 90° Inc / 179.60° Azm / 9500' TVE
13,912.1	9,500.0	-4,616.9	32.3 TD @ 13912' MD / 9500' TVD

6/12/2013 8:51:32AM

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Page 4



leral #3H (Original Well Elev) (Original Well Elev)

> 32° 40' 52.580 N 103° 45' 22.527 W 0.31 °

' 52.580 N 22.527 W

667.0 usft

eld Strength

(nT)

48,670

ay Fe

ical tion ;ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.00
6.3	12.00	12.00	0.00
32.6	12.00	12.00	0.00
78.4	12.00	12.00	0.00
141.6	12.00	12.00	0.00
219.5	12.00	12.00	0.00

308.7 •	12.00	12.00	0.00
405.2	12.00	12.00	0.00
477.5	12.00	12.00	0.00
505.0 605.0 705.0 805.0 905.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1,005.0	0.00	0.00	0.00
1,105.0	0.00	0.00	0.00
1,205.0	0.00	0.00	0.00
1,305.0	0.00	0.00	0.00
1,405.0	0.00	0.00	0.00
1,505.0 1,605.0 1,705.0 1,805.0 1,905.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,005.0 2,105.0 2,205.0 2,305.0 2,405.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,505.0 2,605.0 2,705.0 2,805.0 2,905.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
3,005.0	0.00	0.00	0.00
3,105.0	0.00	0.00	0.00
3,205.0	0.00	0.00	0.00
3,305.0	0.00	0.00	0.00
3,405.0	0.00	0.00	0.00
3,505.0	0.00	0.00	0.00
3,605.0	0.00	0.00	0.00
3,705.0	0.00	0.00	0.00
3,805.0	0.00	0.00	0.00
3,905.0	0.00	0.00	0.00
4,005.0	0.00	0.00	0.00
4,105.0	0.00	0.00	0.00
4,205.0	0.00	0.00	0.00
4,305.0	0.00	0.00	0.00
4,405.0	0.00	0.00	0.00
4,505.0	0.00	0.00	0.00
4,605.0	0.00	0.00	0.00
4,617.0	0.00	0.00	0.00

ical	Dogleg	Build	Turn
tion	Rate	Rate	Rate
;ft)	(°/100usft)	(°/100usft)	(°/100usft)

ting		
;ft)	Latitude	Longitude
18,922.42	32° 40' 6.894 N	103° 45' 22.442 W

Nadel & Gussman Permian, LLC

Lea County, NM (NAD-83) Sec 10,T19S, R32E Sun McKay Federal #3H

Wellbore #1

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Plan: Design #1

DDC Well Planning Report

12 June, 2013





Database:	EDM	1 5000.1 Singl	e User Db		Local C	o-ordinate R	eference:	Well Sun McKa	ay Federal #3	 Н
Company:		el & Gussman		с	TVD Re			WELL @ 3667		
Project:	Lea (County, NM (I	NAD-83)		MD Refe	erence:		WELL @ 3667		
Site:	Sec	10,T19S, R32	2E		North R	eference:		Grid		
Vell:	Sun I	McKay Feder	al #3H		Survey	Calculation M	Method:	Minimum Curv	ature	
Vellbore:	Well	bore #1								
Design:	Desig	gn #1				• •	,			
Project	Lea C	County, NM (N	IAD-83)		· . · .	•	•			
Map System:	US Sta	ite Plane 1983	3		System D	atum:	м	ean Sea Level		
Geo Datum:	North A	American Datu	um 1983		-					
Map Zone:	New M	exico Eastern	n Zone							_
Site	Sec 1	0,T19 <u>\$,</u> R32E	= ·						·	
Site Position:			Nort	nina:	612.	060.76 usft	Latitude:			32° 40' 52.580 N
From:	Ma	ap	East	-		890.08 usft	Longitude:			103° 45' 22.527 W
Position Uncertai		•		Radius:	,	13-3/16 "	Grid Conve	rgence:		0.31 °
\A/-11									-	
Weil		IcKay Federal			• • •					
Well Position	+N/-S			orthing:		612,060.76		titude:		32° 40' 52.580 N
	+E/-W			asting:		718,890.08		ngitude:		103° 45' 22.527 W
Position Uncertai	inty	0	.0 usft W	ellhead Elev	ation:		Gr	ound Level:		3,667.0 usf
Wellbore	Wellb	oore #1								
Magnetics	Mo	del Name	Samp	e Date	Declin (°)		Dip / (Angle . °)	Field St (n	
,		IGRF2010	• •	6/12/2013		7.46		60.53	• •.	48,670
Design	Desig	n #1								
•	acoig									
Audit Notes:			D 1 -			T :	0-0-0		0.0	
Version:			Pha		PLAN	110	e On Depth:		0.0	
Vertical Section:		De	epth From (1	VD)	+N/-S		E/-W		ction	
			(usft)		(usft)	(u	isft)		°)	
			0.0		0.0	C	0.0	17	9.60	
Plan Sections										+,
Measured			Vertical			Dogleg	Build	Turn		
weasureu	ination	Azimuth	Depth	+N/-S	+E/-W	Rate	Rate	Rate	TFO	
Depth Incl		(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	Target
Depth Incl	(°)	~ /								
Depth incl (usft)			0.0	0.0	0.0	0.00	0.00	0.00	0.00	
Depth Incl (usft) 0.0	0.00	0.00	0.0 9,022.5	0.0 0.0				0.00 0.00	0.00 0.00	
Depth Incl (usft) 0.0 9,022.5	0.00 0.00	0.00 0.00	9,022.5	0.0 0.0 -477.4	0.0	0.00	0.00	0.00		
Depth Incl (usft) 0.0	0.00	0.00		0.0			0.00 12.00	0.00	0.00 179.60	^y BHL Sun McKay F

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. Database: EDM 5000.1 Single User Db Well Sun McKay Federal #3H Local Co-ordinate Reference: Nadel & Gussman Permian, LLC WELL @ 3667.0usft (Original Well Elev) Company: TVD Reference: Project: Lea County, NM (NAD-83) WELL @ 3667.0usft (Original Well Elev) MD Reference: Site: Sec 10, T19S, R32E North Reference: Grid Well: Sun McKay Federal #3H Survey Calculation Method: Minimum Curvature Wellbore: Wellbore #1 Design: Design #1

Plannec	I Survey
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Build 12°/	100'					*		•	
9,022.5	0.00	0.00	9,022.5	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	9.30	179.60	9,099,7	-6.3	0.0	6.3	12.00	12.00	0.00
9,200.0	21.30	179.60	9,195.9	-32.6	0.2	32.6	12.00	12.00	0.00
9,300.0	33.30	179.60	9,284.6	-78.4	0.5	78.4	12.00	12.00	0.00
		17 9.00		-70.4	0.0		12.00		0.00
9,400.0	45.30	179.60	9,361.9	-141.6	1.0	141.6	12.00	12.00	0.00
9,500.0	57.30	179.60	9,424.3	-219.5	1.5	219.5	12.00	12.00	0.00
9,600.0	69.30	179.60	9,469.1	-308.7	2.2	308.7	12.00	12.00	0.00
9,700.0	81.30	179.60	9,494.5	-405.2	2.8	405.2	12.00	12.00	0.00
EOB @ 90	° Inc / 179.60°	Azm / 9500' T	.VD						
9,772.5	90.00	179.60	9,500.0	-477.4	3.3	477.5	12.00	12.00	0.00
9,800.0	90.00	179.60	9,500.0	-505.0	3.5	505.0	0.00	0.00	0.00
9,800.0	90.00	179.60	9,500.0	-505.0	4.2	605.0	0.00	0.00	0.00
9,900.0	90.00	179.60	9,500.0 9,500.0	-604.9 -704.9	4.2	705.0	0.00	0.00	0.00
10,100.0	90.00	179.60	9,500.0	-804.9	5.6	805.0	0.00	0.00	0.00
10,200.0	90.00	179.60	9,500.0	-904.9	6.3	905.0	0.00	0.00	0.00
10,300.0	90.00	179.60	9,500.0	-1,004.9	7.0	1,005.0	0.00	0.00	0.00
10,400.0	90.00	179.60	9,500.0	-1,104.9	7.7	1,105.0	0.00	0.00	0.00
10,500.0	90.00	179.60	9,500.0	-1,204.9	8.4	1,205.0	0.00	0.00	0.00
10,600.0	90.00	179.60	9,500.0	-1,304.9	9.1	1,305.0	0.00	0.00	0.00
10,700.0	90.00	179.60	9,500.0	-1,404.9	9.8	1,405.0	0.00	0.00	0.00
10,800.0	90.00	179.60	9,500.0	-1,504.9	10.5	1,505.0	0.00	0.00	0.00
10,900.0	90.00	179.60	9,500.0	-1.604.9	11.2	1,605.0	0.00	0.00	0.00
11,000.0	90.00	179.60	9,500.0	-1,704.9	11.9	1,705.0	0.00	0.00	0.00
11,100.0	90.00	179.60	9,500.0	-1.804.9	12.6	1,805.0	0.00	0.00	0.00
11,200.0	90.00	179.60	9,500.0	-1,904.9	13.3	1,905.0	0.00	0.00	0.00
			-						
11,300.0	90.00	179.60	9,500.0	-2,004.9	14.0	2,005.0	0.00	0.00	0.00
11,400.0	90.00	179.60	9,500.0	-2,104.9	14.7	2,105.0	0.00	0.00	0.00
11,500.0	90.00	179.60	9,500.0	-2,204.9	15.4	2,205.0	0.00	0.00	0.00
11,600.0	90.00	179.60	9,500.0	-2,304.9	16.1	2,305.0	0.00	0.00	0.00
11,700.0	90.00	179.60	9,500.0	-2,404.9	16.8	2,405.0	0.00	0.00	0.00
11,800.0	90.00	179.60	9,500.0	-2,504.9	17.5	2,505.0	0.00	0.00	0.00
11,900.0	90.00	179.60	9,500.0	-2,604.9	18.2	2,605.0	0.00	0.00	0.00
12,000.0	90.00	179.60	9,500.0	-2,704.9	18.9	2,705.0	0.00	0.00	0.00
12,100.0	90.00	179.60	9,500.0	-2,804.9	19.6	2,805.0	0.00	0.00	0.00
12,200.0	90.00	179.60	9,500.0	-2,904.9	20.3	2,905.0	0.00	0.00	0.00
12,300.0	90.00	179.60	9,500.0	-3,004.9	21.0	3,005.0	0.00	0.00	0.00
12,400.0	90.00	179.60	9,500.0	-3,104.9	21.7	3,105.0	0.00	0.00	0.00
12,500.0	90.00	179.60	9,500.0	-3,204.9	22.4	3,205.0	0.00	0.00	0.00
12,600.0	90.00	179.60	9,500.0	-3,304.9	23.1	3,305.0	0.00	0.00	0.00
12,700.0	90.00	179.60	9,500.0	-3,404.9	23.8	3,405.0	0.00	0.00	0.00
12,800.0	90.00	179.60	9,500.0	-3,504.9	24.5	3,505.0	0.00	0.00	0.00
12,900.0	90.00	179.60	9,500.0	-3,604.9	25.2	3,605.0	0.00	0.00	0.00
13,000.0	90.00	179.60	9,500.0	-3,704.9	25.9	3,705.0	0.00	0.00	0.00
13,100.0	90.00	179.60	9,500.0	-3,804.9	26.6	3,805.0	0.00	0.00	0.00
13,200.0	90.00	179.60	9,500.0	-3,904.9	27.4	3,905.0	0.00	0.00	0.00
13,300.0	90.00	179.60	9,500.0	-4,004,9	28.1	4,005.0	0.00	0.00	0.00
13,400.0	90.00	179.60	9,500.0	-4,104.9	28.8	4,005.0	0.00	0.00	0.00
13,400.0	90.00	179.60	9,500.0	-4,204.9	20.0	4,105.0	0.00	0.00	0.00
13,500.0	90.00	179.60	9,500.0	-4,304.9	30.2	4,205.0	0.00	0.00	0.00
13,700.0	90.00	179.60	9,500.0 9,500.0	-4,304.9 -4,404.9	30.2	4,305.0	0.00	0.00	0.00
13,800.0	90.00	179.60	9,500.0	-4,504.9	31.6	4,505.0	0.00	0.00	0.00
13,900.0	90.00	179.60	9,500.0	-4,604.9	32.3	4,605.0	0.00	0.00	0.00
13,912.1	90.00	179.60	9,500.0	-4,616.9	32.3	4,617.0	0.00	0.00	0.00

COMPASS 5000.1 Build 39



Company: Project: Site: Well: Wellbore:	any: Nadel & Gussman Permian, LLC t: Lea County, NM (NAD-83) Sec 10,T19S, R32E Sun McKay Federal #3H Vellbore #1					Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:			Well Sun McKay Federal #3H WELL @ 3667.0usft (Original Well Elev) WELL @ 3667.0usft (Original Well Elev) Grid Minimum Curvature		
Design:	Design #1		· .					• •			
Planned Survey											
Measured Depth J (usft)	nclination (°)	Azimuth (°)	Vertica Depth (usft)	+N/ (us	-	+E/-W (usft)	Vertical Section (usft)		Build Rate (°/100usft)	Turn Rate (°/100usft)	
Design Targets		· ••• • • • • • • •				·········· · · · · · · · · · · · · · ·	•				
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	North (usf		Easting (usft)	Latitude	Longitude	
PBHL Sun McKay Feo - plan hits target o - Rectangle (sides	enter	179.60 0 D4,144.6	9,500.0)	-4,616.9	32.3	607,4	443.85	718,922.42	32° 40′ 6.894 N	l 103° 45' 22.442 W	
Plan Annotations											
Measu Dept (usft	h De	Vertical Lo Depth +N/-S (usft) (usft)				Comme	nt		· .		
-,-	72.5 9,	,022.5 ,500.0 ,500.0	0.0 -477.4 -4,616.9		0.0 3.3 32.3	<u> </u>	90° Inc / 1	79.60° Azm / 95 (9500' TVD	00' TVD		

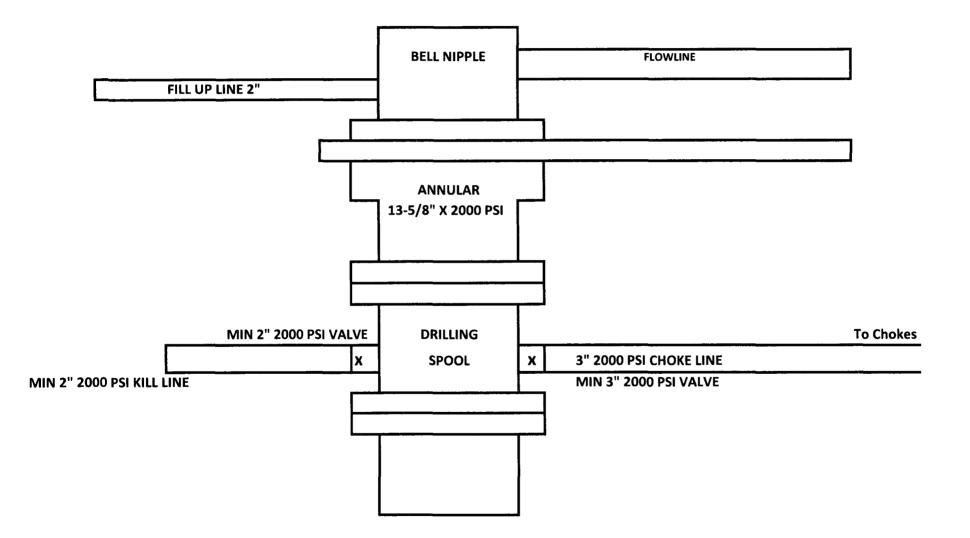
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Well Sun McKay Federal #3H

330 FNL, 1980 FWL, Sec. 10, 19S, 32E

Lea County New Mexico

Nadel and Gussman Permian, L.L.C. BOP Scematic 12.25" hole .

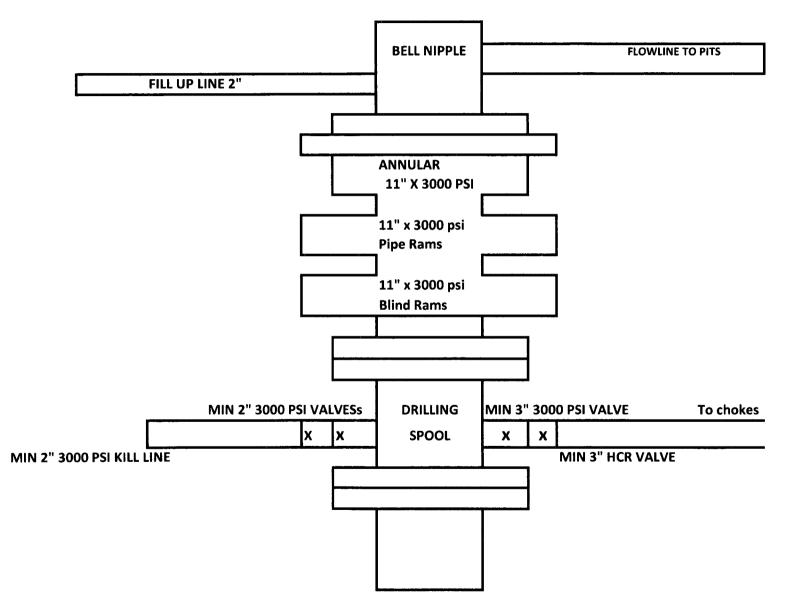


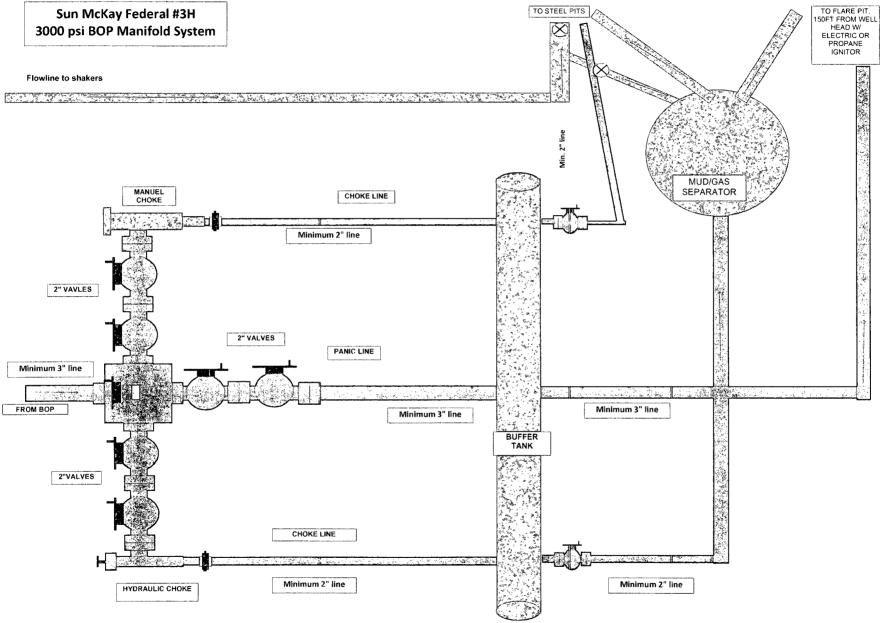
Well Sun McKay Federal #3H

330 FNL, 1980 FWL, Sec. 10, 19S, 32E

Lea County New Mexico

Nadel and Gussman Permian, L.L.C. BOP Scematic 8.75" & 6.125" hole





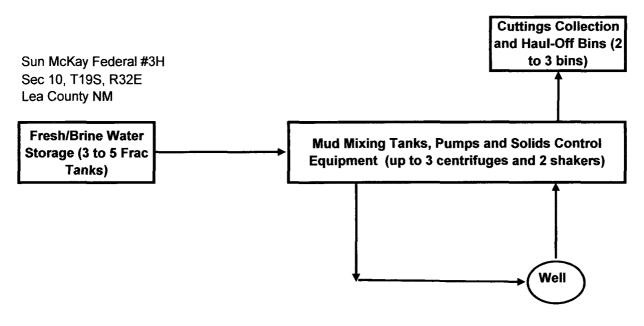
Exact manifold configuration may vary

CLOSED-LOOP SYSTEM

Design Plan:

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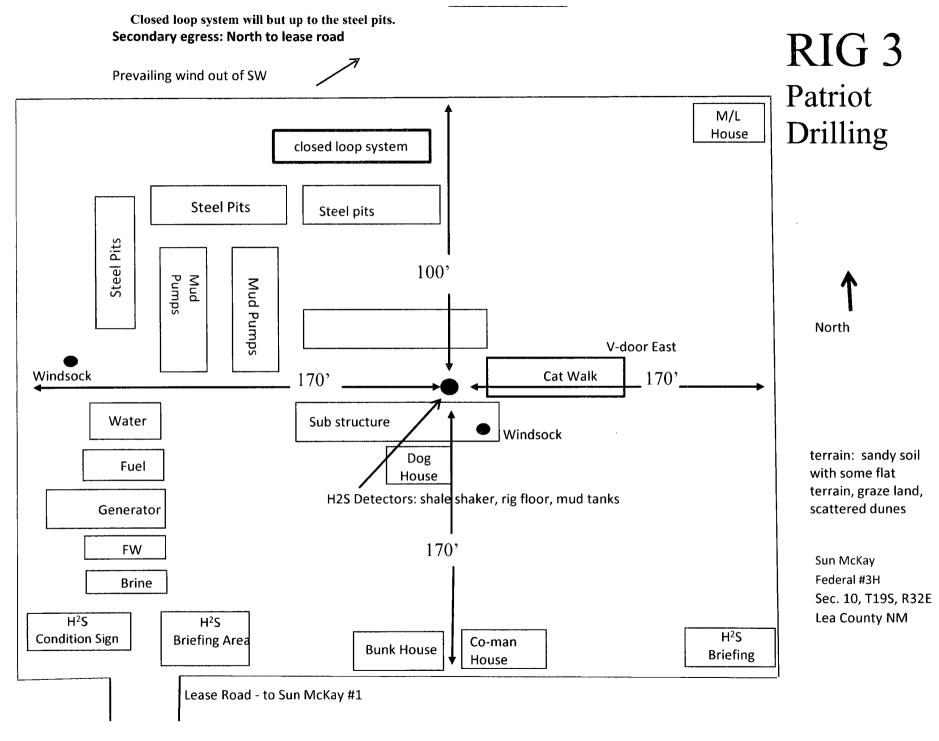


Operating and Maintenance Plan:

During drilling operations, third party service companies will utilize solids control equipment to remove cuttings from the drilling fluid and collect it in haul-off bins. Equipment will be closely monitored at all times while drilling by the derrick man and the service company employees.

Closure Plan:

During drilling operations, third party service companies will haul-off drill solids and fluids to an approved disposal facility. At the end of the well, all closed loop equipment will be removed from the location.



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Location road

NADEL AND GUSSMAN PERMIAN, L.L.C. 601 N. MARIENFELD STE. 508 MIDLAND, TX 79701 (432) 682-4429 (Office) (432) 682-4325 (Fax)

December 10, 2013

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Mr. Ingram Carlsbad BLM Field Office 620 E. Greene St. Carlsbad, NM 88220

Re: Sun McKay Federal #3H SHL: 330' FNL & 1980' FWL UL C Sec. 10, T19S, R32E Lea County, NM Rule 118 H2S Exposure

Dear Mr. Ingram,

Nadel and Gussman Permian, LLC have evaluated this well and we do not expect to encounter hydrogen sulfide. However, we will employ a third party monitoring system. We will begin monitoring prior to drilling out the surface casing and will continue monitoring the remainder of the well.

Please contact me if you have any additional questions.

Sincereb Jason Gos

Drilling Engineer