Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Serial No. NMNM61349

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.			I INIVIINIVIO 1349			
			6. If Indian, Allottee of	r Tribe Name		
SUBMIT IN TRIPLICATE - Other instructions on page 2				7. If Unit or CA/Agreement, Name and/or No.		
Type of Well				8. Well Name and No. RANA SALADA FI	ED COM 0504 133H	
Name of Operator Contact: KURT SHIPLEY NOVO OIL AND GAS NORTHERN DEE-Mail: kshipley@novoog.com				9. API Well No. 30-015-46086-0	0-X1	
3a. Address 1001 WEST WILSHIRE BOULEVARD SUITE 206 OKLAHOMA CITY, OK 73116 3b. Phone No. (include area code) Ph: 405-286-3916				10. Field and Pool or Exploratory Area CULEBRA BLUFF		
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)				-	11. County or Parish, State	
Sec 6 T23S R29E NESE 1443FSL 607FEL 32.330982 N Lat, 104.017578 W Lon					EDDY COUNTY, NM	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	ΓE NATURE O	F NOTICE,	REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION		•	TYPE OF	F ACTION		
Notice of Intent ■ Notice of Intent Notice of	☐ Acidize	☐ Deep	oen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	Hyd	raulic Fracturing	☐ Reclam	ation	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	□ New	Construction	☐ Recomp	olete	Other
☐ Final Abandonment Notice	☐ Change Plans	🗖 Plug	and Abandon	☐ Tempor	arily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug	Back	□ Water Disposal		
testing has been completed. Final Al determined that the site is ready for f Request to move Surface Hole From: 1443 feet ESL & 612 feet EEL	inal inspection. e Location	·	oquiromenu, morau	reciamano	RECEIVE	
1443 feet FSL & 612 feet FEL, Section 6, T23S, R29E, NESE To: 1443 feet FSL & 607 feet FEL Section 6, T23S, R29E, NESE			MAR 2 0 20			
Moved on the same pad site a			ance	C:A/		
Request to move Bottom Hole		ariaoc distart	diloc.		INRD-OCD A	IKIESIA
Request to move bottom note	ELOCATION					
14. I hereby certify that the foregoing is	s true and correct. Electronic Submission # For NOVO OIL AND nmitted to AFMSS for proc	GAS NORTH	ERŃ DELA, sent	to the Carlsh	oad	
Name (Printed/Typed) BRIAN W	/OOD		Title CONSU	ILTANT		
Signature (Electronic S	Submission)		Date 02/28/26	020		
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE	
Approved By JEROMY PORTER			TitlePETROLE	UM ENGINI	EER	Date 03/13/202
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to conduct the conduction of th	uitable title to those rights in the	not warrant or e subject lease	Office Carlsbac	d		
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent				willfully to ma	ake to any department or a	agency of the United

(Instructions on page 2) ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional data for EC transaction #504952 that would not fit on the form

32. Additional remarks, continued

From: 1870 feet FSL & 330 feet FEL, Section 4, T23S, 29E, NESE

To: 2178 feet FSL & 2510 feet FWL Section 4, T23SS, R29, NESW

Request to change Producing Formation from Culebra Bluff, Bone Spring South to Wolfcamp B

See attached for detailed changes from 3-string to 4-string, casing and cementing specs, and mud program. There has been no change to the surface casing.

Revisions to Operator-Submitted EC Data for Sundry Notice #504952

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

APDCH NOI

APDCH NOI

NMNM61349

NMNM61349

Agreement:

Lease:

Operator:

NOVO OIL & GAS N DELAWARE LLC 1001 W. WILSHIRE BLVD. SUITE 206 OKLAHOMA CITY, OK 73116 Ph: 405-285-3916

NOVO OIL AND GAS NORTHERN DELA 1001 WEST WILSHIRE BOULEVARD SUITE 206 OKLAHOMA CITY, OK 73116

Ph: 4054040414

Admin Contact:

KURT SHIPLEY VP-OPERATIONS

E-Mail: kshipley@novoog.com Cell: 405-404-0414 Ph: 405-286-3916

KURT SHIPLEY VP-OPERATIONS E-Mail: kshipley@novoog.com Cell: 405-404-0414 Ph: 405-286-3916

Tech Contact:

BRIAN WOOD CONSULTANT

E-Mail: brian@permitswest.com

Ph: 505-466-8120

BRIAN WOOD CONSULTANT

E-Mail: brian@permitswest.com

Ph: 505-466-8120

Location:

State: County: NM

EDDY COUNTY

NM EDDY

Field/Pool:

CULEBRA BLUFF BONE SPR SO

CULEBRA BLUFF

Well/Facility:

RANA SALADA FED COM 0504 133H Sec 6 T23S R29E Mer NMP NESE 1443FSL 612FEL

RANA SALADA FED COM 0504 133H Sec 6 T23S R29E NESE 1443FSL 607FEL 32.330982 N Lat, 104.017578 W Lon

CHANGE TO PLANS

Move Surface Hole Location

From: 1242' FSL & 639' FEL, Section 6, T-23-S, R-29-E, SESE

To: 1444' FSL & 587' FEL Section 6, T-23-S, R-29-E., SESE

Moved on the same pad site and there will be no new surface disturbance.

Move Bottom Hole Location

From: 330' FSL & 330' FEL, Section 4, T-23-S, R-29-E, SESE

To: 890' FSL & 130' FEL Section 4, T-23-S, R-29-E, SESE

Producing Formation

From: Wolfcamp XY carbonate

To: Wolfcamp B

Substitution Casing

9-5/8", 40.0 ppf, J-55, BTC to be set at 2,970' TMD

Design Safety Factors: Collapse 1.63, Burst 2.63, Tension 3.15

7-5/8", 29.7 ppf, L-80HC Anaconda-SP SF to be set at 9,780' TMD

Design Safety Factors: Burst 3.20 SF, Collapse 2.8 SF, Tension 1.60 SF (Casing Specification Sheet is attached)

5-1/2" 23# P-110 EYHC Anaconda SP to be set at 21,217' TMD

Design Safety Factors: Burst 1.25 SF, Collapse 2.8SF, Tension 2.41 SF (Casing Specification Sheet is attached)

Single Stage Cement Job for 9-5/8" Intermediate Casing String (TOC = Surface)

Lead: 481 Sacks; 928 cu. ft.; 20% excess; 1.93 cu.ft./sx; 12.80 ppg; Class C + gel + accelerator + LCM; 700 psi 24 hour compressive strength

Tail: 142 Sacks; 188 cu. ft.; 20% excess; 1.32 cu.ft./sx; 14.80 ppg; Class C; 1200 psi 24 hour compressive strength

Single Stage Cement Job for 7-5/8" Intermediate Casing String (TOC = Surface)

Lead: 392 Sacks; 1,059 cu. ft.; 20% excess; 2.70 cu.ft./sx; 10.50 ppg; Class H + gel + extender + retarder + LCM + beads; 500 psi 24 hour compressive strength

Tail: 96 Sacks; 121 cu. ft.; 20% excess; 1.26 cu.ft./sx; 14.50 ppg; Class H + gel + retarder + LCM; 1200 psi 24 hour compressive strength

Single Stage Cement Job for 5-1/2" Production Casing String (TOC = 9,280')

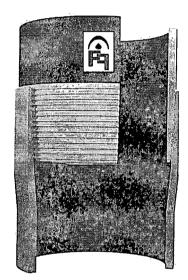
Tail: 695 Sacks; 1196 cu. Ft.; 20% Excess; 1.72 cu.ft./sx; 13.2 ppg; Class H + Fluid Loss + Retarder + LCM; 1200 psi 24 hour compressive strength

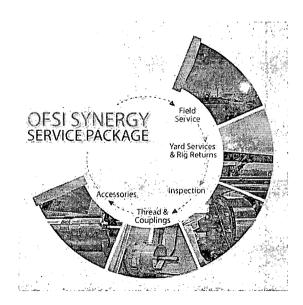
7.625 29.7# L-80 HC Anaconda-SP SF (Special Clearance)

Pipe Boo	ly Data	1. 新版系	
Nominal OD	7.625	Inches	
Wall Thickness	0.375	Inches	
Weight	29.04	lb/ft	
PE Weight	29.7	lb/ft	
Nominal ID	6.875	Inches	
Drift	6.750	Inches	
Minimum Yield Strength	80,000	PSI	
Minimum Tensile Strength	95,000	PSI	
RBW	87.5%	Rating	

Connection	Data	
Connection OD	7.906	Inches
Connection ID	6.875	Inches
Make-Up loss	4.003	Inches
Tension Efficiency	81.0%	Rating
Compression Efficiency	81.0%	Rating
Yield Strength in Tension	553,000	LBS.
Yield Strength in Compression	553,000	LBS.
MIYP (Burst)	6,890	PSI
Collapse Pressure	5,510	PSI
Uniaxial Bending	3 9	degrees

Make-Up to	rques	
Yield torque	55,000	FT-LBS.
Max Operating Torque	44,000	FT-LBS.
Max Make-Up	20,000	FT-LBS.
Optimum Make-Up	16,500	FT-LBS.
Minimum Make-Up	13,000	FT-LBS.





Technical Sales Support: Rafael Escamilla Jr., Cell: 281-961-7704, jescamilla@ofsint.com

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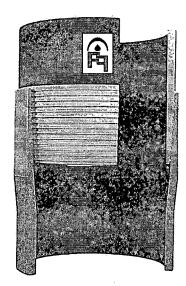
Product is sold by OFSI under a license from Fermata Technologies, LLC

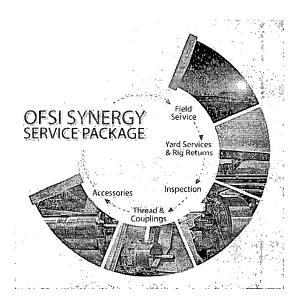
5.5 23# P-110 EYHC Anaconda SP...

Pipe Body	Data !	
Nominal OD	5.500	Inches
Wall Thickness	0.415	Inches
Weight	23.00	lb/ft
PE Weight	22.56	lb/ft
Nominal ID	4.670	Inches
Drift	4.545	Inches
Minimum Yield Strength	125,000	PSI
Minimum Tensile Strength	130,000	PSI
RBW	87.5%	Rating

	decharación (como a contratación de contrataci
Data	
5.748	Inches
4.670	Inches
4.692	Inches
90%	Rating
90%	Rating
746,000	LBS.
746,000	LBS.
16,510	PSI
16,000	PSI
94	degrees
	5.748 4.670 4.692 90% 90% 746,000 746,000 16,510 16,000

Make-Up	torques	1415
Yield torque	44,000	FT-LBS.
Max Operating Torque	35;200	FT-LBS.
Max Make-Up	20,000	FT-LB\$.
Optimum Make-Up	16,500	FT-LBS.
Minimum Make-Up	13,000	FT-LBS.





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