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 5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an NMNM008005

abandoned wel		Allottee or Tribo RN NAVAJO	Name		
SUBMIT IN T	7. If Unit or NMNM	 If Unit or CA/Agreement, Name and/or No. NMNM132981A 			
Type of Well ☐ Gas Well ☐ Oth	er		8. Well Nam NAGEEZ	ne and No. ZI UNIT 507H	
2. Name of Operator	Contact: JEVIN CORPŒ-Mail: jevin.croteau@end		9. API Well 30-045-	No. -35855-00-X1	
3a. Address 370 17TH STREET, SUITE 17 DENVER, CO 80202		none No. (include area code) 720-876-5339	10. Field an BASIN	d Pool or Explor MANCOS	atory Area
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)		11. County	or Parish, State	
Sec 9 T23N R9W NENE 260F 36.248043 N Lat, 107.786758			SAN JU	JAN COUNTY	, NM
12. CHECK THE AP	PROPRIATE BOX(ES) TO IN	DICATE NATURE OF	NOTICE, REPORT,	OR OTHER I	DATA
TYPE OF SUBMISSION		TYPE OF	ACTION		
Notice of Intent ■ Notice of Intent Notice of	☐ Acidize	□ Deepen	☐ Production (Start/Re	sume)	Water Shut-Off
_	☐ Alter Casing	☐ Hydraulic Fracturing	□ Reclamation		Well Integrity
☐ Subsequent Report	☐ Casing Repair	■ New Construction	☐ Recomplete		Other
☐ Final Abandonment Notice	☐ Change Plans	□ Plug and Abandon	☐ Temporarily Abando	on	
BP	☐ Convert to Injection	☐ Plug Back	■ Water Disposal		
testing has been completed. Final Ab determined that the site is ready for fi Encana is requesting authorize the gas lift install procedure ar	ation to install gas lift on the sub nd gas lift design.	after all requirements, includi	ng reclamation, have been co	ompleted and the	operator has
	Electronic Submission #437393 For ENCANA OIL & GAS (Ummitted to AFMSS for processing	JSA) INCÓRPO, sent to t by JACK SAVAGE on 11	the Farmington 1/06/2018 (19JWS0030SE		
Name (Printed/Typed) JEVIN CR	RIZED REPRESENTA	TIVE			
Signature (Electronic S	Submission)	Date 09/27/20)18		
	THIS SPACE FOR FE	DERAL OR STATE (OFFICE USE		
Approved By JACK SAVAGE		TitlePETROLFI	JM ENGINEER		Date 11/06/2018
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to condu	itable title to those rights in the subject	rant or			
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s			willfully to make to any depart	artment or agenc	y of the United

NU A09-2309 507H

Tubing - Gas Lift Install Procedure - 9/25/18

Scope

Install a tapered tubing string, 2-7/8" x 2-3/8", with 2-7/8" gas lift valves. Gas lift valves will be installed in the 2-7/8" tubing above the liner top. A tubing anchor catcher will be set at approx. 50° and tubing set in tension. A 2-7/8" X nipple will be set just below the TAC in the 2-7/8." The 2-3/8" string will start at approx. 50° (above the liner top) and land at 80°.

Current Wellbore Details:

All depths from KB (14')
7" Int csg set at 5,088' MD (~66°)
4 ½" liner – top at 4,874' MD (~50°)
Perfs (30 stages) 5,531' – 12,500' MD

Proposed Tubing Details:

All depths from KB (14')
2-7/8" tbg to 4,820' MD (TOL @ 4,874' & 50°)
2-7/8" Gas Lift Valves – 2,164', 2,799', 3,465', 3,977', 4,507'
2-7/8" x 7" TAC set @ 4,820'
2-7/8" Profile Nipple @ 4,824' MD (~50°)
2-7/8" x 2-3/8" x-over @ 4,825' MD
2-3/8" tbg to 5,290' MD (80°)

Procedure:

- 1. Complete drillout and circulate hole clean.
- 2. PU and TIH w/ approx. 465' of J55 2-3/8" 4.7# tbg.
- 3. X-over to 2-7/8". Liner top is @ 4,874'.
- 4. Make up 2-7/8" X Nipple and 7" tubing anchor. Run approx. 4,920' of 2-7/8", J55, 6.4# tbg with gas lift valves installed per Superior design (depths noted above).
- 5. Install tubing hanger and tree. Land tubing in 15,000 lb tension.
- 6. Turn over to Production for gas lift operations.

Contact Information:

Casey Morse	Production Engineer	720-876-3753 (o)
		603-205-3780 (c)
Tony Ferrari	Production Coordinator	505-599-2412 (o)
		505-258-3875 (c)
James Jmieff	Production Manager	720-876-5343 (o)
		720-412-0339 (c)

Encana - Nageezi Unit # 507H

DESIGN DATE:

9/20/2018

DESIGNED BY:

Pat Drake

Well Data:

The well to be completed with 2.875" and 2.375" TBG - No Packer

The production CSG is 7.0" 26.0# w/ 6.276" ID 6.151" drift.

Design Criteria:

KO/OP pressure = 800 psi / 800 psi

Gas specific gravity = 0.830

Kill fluid gradient = 0.465 psi/ft

Static surface temperature = 74° F.

Flowing surface temperature = 86° F.

Bottom hole temperature = 135° F.

Datum Depth = 4856 feet TVD | Geothermal grad. = 1.256°F/100 ft

Oil gravity = 41° API / 0.820 sg

Water specific gravity = 1.030

Flowing well head pressure = 200 psi / 200 psi / 200 psi

Design rates = 500 blpd / 400 blpd / 300 blpd

Design injection rates = 500 mcfd / 500 mcfd / 500 mcfd

Recomendations:

Install (5) 2-7/8" x 1-1/2" conventional g/l mandrels w/ 1.5" OD valves per design Perfs @ $\sim 5,531$ ' to 12,500' / 4,856' to 4,883' (MD/TVD)

Company:

Encana

NM

Field:

Lybrrok Gallup Nageezi Unit # 507H

Well: Lease:

State:

Design Date:

Designed By: Design For: 9/20/2018 Pat Drake Casey Morse

Phone Number: County: 505-320-7002 San Juan

Design Parameters

Comments

GLV's @ 2164', 2799', 3465, 3977' and 4507' MD 2.31" X-nipple @ 4849' MD / 4658' TVD 2-7/8" x 2-3/8" Tubing X-over @ 4850' MD / 4659' TVD TOL @ 4874' MD / 4673' TVD 2-3/8" Tailpipe w/ EOT @ 5290' MD / 4838' TVD

Dat	a
(ick	0

o Data			
Kick off pressure	800 psig	Operating pressure	800 psig
Lift gas gravity	0.830	Kill fluid gradient	0.465 psi/ft

Temperature Data

Static Surface	74 °F	Flowing Surface	86 °F
Bottom Hole	135 °F	Temperature model	Straight line

PVT Data

Oil specific gravity	0.820	Water specific gravity	1.030
Oil API gravity	41.	Gas specific gravity	0.830

Depths

10			
Max VIv depth	4400 feet	Perforations	5531 / 4856 (MD/TVD) feet
Fluid level	0 feet		and the second

Reservoir

1 0 0 11			
Formation GLR	0 scf/bbl	Static bottom hole pressure	1900 psig
Productivity Index	0.0 bbl/dy/psi		

Flowing Gradients

	Inj Rate	WHP	RATE	GLR	% WATER	CORRELATION
1	500 mcfd	200 psig	500 blpd	1000 scf/bbl	20.00	Hagendorn-Brown
2	500 mcfd	200 psig	400 blpd	1250 scf/bbl	20.00	Hagendorn-Brown
3	500 mcfd	200 psig	300 blpd	1667 scf/bbl	20.00	Hagendorn-Brown

Well Geometry

Tubing #	TVD	MD	Casing I.D.	Tubing O.D.	Tubing I.D.	Tubing Threads
1	1979	2009	6.276	2.875	2.441	EUE 8RD
2	2038	2070	6.276	2.875	2.441	EUE 8RD
3	2512	2556	6.276	2.875	2.441	EUE 8RD
4	3048	3104	6.276	2.875	2.441	EUE 8RD
5	3525	3593	6.276	2.875	2.441	EUE 8RD
6	4014	4094	6.276	2.875	2.441	EUE 8RD
7	4400	4507	6.276	2.875	2.441	EUE 8RD
8	4659	4850	6.276	2.875	2.441	EUE 8RD
9	4673	4874	6.276	2.875	2.441	EUE 8RD
10	4856	5531	4.000	2.375	1.995	EUE 8RD

Company: Field:

Encana Lybrrok Gallup

Nageezi Unit # 507H

Well: Lease: State:

NM

Design Date: Designed By:

Design For:

Phone Number:

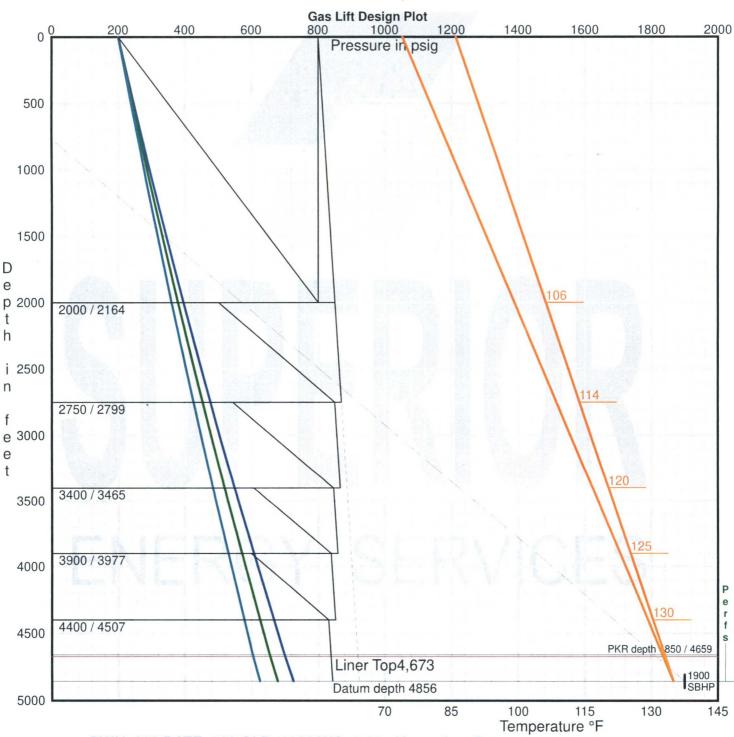
County:

9/20/2018

Pat Drake Casey Morse

505-320-7002

San Juan



PWH=200 RATE=500 GLR=1000 WC=0.20 - Hagendorn-Brown - PWH=200 RATE=400 GLR=1250 WC=0.20 - Hagendorn-Brown PWH=200 RATE=300 GLR=1667 WC=0.20 - Hagendorn-Brown

page 3 of 5

Company:

Encana

Field:

Lybrrok Gallup Nageezi Unit # 507H

Well: Lease: State:

NM

Design Date:

Designed By: Design For:

Phone Number: County:

9/20/2018 Pat Drake

Casey Morse 505-320-7002 San Juan

Gas Lift Design Calculations

Valve #	Depth TVD	Depth MD	Valve Temp	TCF	Port size	R	DPC	PT	PTR	PSC	PVC	OP	PSO	PD @ 60 F	PTRO
5	2000	2164	106	0.909	12	0.048	51	501	24	783	834	851	800	758	795
4	2750	2799	114	0.896	12	0.048	70	544	26	762	833	847	777	746	785
3	3400	3465	120	0.885	12	0.048	87	607	29	742	828	840	753	733	770
2	3900	3977	125	0.877	12	0.048	99	600	29	722	821	832	733	720	755
1	4400	4507	130	0.869	12	0.048	112	580	28	701	813	825	713	707	745
	20 Mg									p d					
											er St				
				<u> </u>				8.3							
	30,000		-22								~			C140_10	
														(C)	

TV: Temperature of valve in °F

TCF: Temperature correction factor

R: Ap/Ab

DPC: Casing press. at depth - casing press. at surface

PT: Tubing pressure

PTR: Tubing assist in valve opening (PTR = PT X R)

PSC: Closing pressure at surface

PVC: Closing pressure at depth (PVC = PSC + DPC)

OP: Opening pressure at depth (OP = (PVC - PTR) / (1 - R))

PSO: Surface opening pressure (PSO = OP - DPC)

PD at F: Bellows pressure at base temperature (PD at F =TCF X PVC)

PTRO: Test rack opening pressure (PTRO = (PD at F) / (1 - R))

Company: Field:

Encana

Well:

Lybrrok Gallup Nageezi Unit # 507H

Lease: State:

NM

Design Date: Designed By: Design For: Phone Number:

County:

9/20/2018

Pat Drake Casey Morse 505-320-7002

San Juan

Shop Order

Valves

-										
	Qty	New	Rec.	Exc.						
ľ	5	0	5	0						

Checks					
Qty	New	Rec.	Exc.		
5	0	5	0		

Latches

_						
	Qty	New	Rec.	Exc.		
	0	0	0	0		

Valve details

				Tarro actario			
Valve #	Valve Model	Test Rack Opening	Set	Port Size	Depth TVD	Depth MD	Special Instructions
5	GJ-20	795		12	2000	2164	W/ TC Trim
4	GJ-20	785		12	2750	2799	W/ TC Trim
3	GJ-20	770		12	3400	3465	W/ TC Trim
2	GJ-20	755		12	3900	3977	W/ TC Trim
1	GJ-20	745		12	4400	4507	W/ TC Trim
	1	1		1	1	1	

Mandrel Specifications

Qty	Type & Size	Thread	Grade	New/Rec.	Coating
5	2-7/8" x 1-1/2" conv.	8 rd EUE	J55	REC	EP

Equipment prepared by.	Loaded/rested by.	
Comments:		
at the state of th		
Verified by:		