eceined by OCP; 2/6/2021 8:15:05 A	M State of New M	exico		Form C-1031 of
Office <u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Nat	ural Resources	WELL API NO.	tevised July 18, 2013
<u>District II</u> – (575) 748-1283	OIL CONSERVATION	J DIVISION	30-039-26927	
811 S. First St., Artesia, NM 88210 District III – (505) 334-6178	1220 South St. Fra		5. Indicate Type of Leas	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 8		STATE 6. State Oil & Gas Lease	FEE _
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa 1 C, 141VI O	7303	NMSF078771	e No.
87505 SLINDRY NOTIC	ES AND REPORTS ON WELL	<u> </u>	7. Lease Name or Unit A	Agreement Name
(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA	ALS TO DRILL OR TO DEEPEN OR PL	UG BACK TO A	Rosa Unit	agreement (vanic
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well x Other		8. Well Number Rosa U	Jnit 5B
2. Name of Operator LOGOS Operating, LLC			9. OGRID Number 289408	
3. Address of Operator			10. Pool name or Wildca	nt
2010 Afton Place, Farmington NI	M 87401		Blanco Mesaverde / Ba	sin Dakota
4. Well Location				
	feet from the FNL		1835' feet from the _	
Section 26	Township T31N R 11. Elevation (Show whether DR		NMPM Coun	ty Rio Arriba
	6309'	K, KKB, KI, GK, etc.	.)	
	0307			
12. Check A	ppropriate Box to Indicate N	Nature of Notice,	Report or Other Data	
NOTICE OF INT	FNTION TO:	SUE	SEQUENT REPORT	ΓOF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR		RING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DR	ILLING OPNS. P AND) A 🔲
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	IT JOB	
DOWNHOLE COMMINGLE				
CLOSED-LOOP SYSTEM OTHER:		OTHER:		
13. Describe proposed or comple	eted operations. (Clearly state all		d give pertinent dates, inclu	iding estimated date
	k). SEE RULE 19.15.7.14 NMA			
Pre-approved Pool Divis				
	Blanco Mesaverde (72319) and E	Basin Dakota (71599	9).	
Perforated Intervals:	701 50171			
Blanco Mesaverde: 43 Basin Dakota: 7804' -				
	ion based upon production data 6.	5% Blanco Mesaver	de and 35% Basin Dakota.	This is based upon the
	th the Mesaverde and Dakota pro			1
	duce the value of reserves.			
	acing unit have not been notified	of the intent of the d	lownhole commingle per or	der R-12991. BLM has
been notified on sundry i	notice form 3160-5.			
0.15				
Spud Date:	Rig Release D	ate:		
I hereby certify that the information al	bove is true and complete to the b	est of my knowledg	ge and belief.	
	•	, , ,		
SIGNATURE Marie E. FL	orez TITLE R	egulatory Specialist	tDATE	2/1/2021
Type or print nameMarie E. Florez For State Use Only	E-mail addres	s: _mflorez@logos	sresourcesllc.comPHONE:	505-787-2218
APPROVED BY:	TITLE		DATE	
Conditions of Approval (if any):				



DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2021)

Mesaverde/Dakota

Rosa Unit 5B 30-039-26927 715' FNL & 1835' FEL Section 26, T31N, R06W Rio Arriba, New Mexico LAT: 36.875927° N LONG: -107.4294357° W

PROJECT OBJECTIVE:

Remove packer and downhole commingle Mesaverde and Dakota.

WORKOVER PROCEDURE:

- 1. Hold safety meeting. MIRU workover rig. Place fire and safety equipment in strategic locations. Comply with all LOGOS, BLM, and NMOCD rules and regulations.
- 2. Lay flow lines. Check and record casing and tubing pressures. Rig up blow lines from casing valves to rig pit. Kill well if necessary.
- 3. Nipple down wellhead and nipple up BOP.
- 4. Release Mesaverde tubing string. Trip out of hole with Mesaverde tubing string and lay down.
- 5. Release Dakota tubing string. Trip out of hole with Dakota tubing string and lay down.
- 6. Run in hole with packer plucker to retrieve Model D Packer at 5950'. Trip out of hole with packer plucker assembly and string.
- 7. Run in hole with single 2-3/8" production tubing string.
- 8. Return to production as a Mesaverde/Dakota commingle.

PRODUCTION ALLOCATION

Historic production data from both zones in this well was gathered and analyzed. Cumulative production was used to determine allocations and allocations were verified with recent production history.

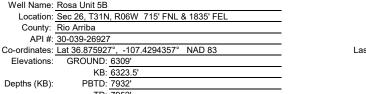
Cumulative Production

Cumulative production from well 847 MMcf
Cumulative MV production 548 MMcf
Cumulative DK production 299 MMcf

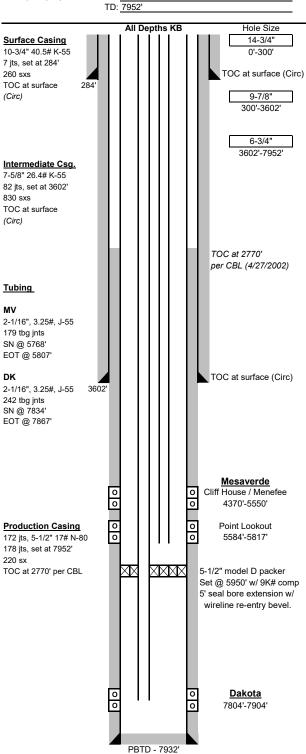
MV allocation = MV cumulative/total cumulative = 548/847 = **65%** DK allocation = DK cumulative /total cumulative = 299/847 = **35%**



Wellbore Schematic



Date Prepared:	1/6/2021 Hespe
Last Updated:	
Spud Date:	4/9/2002
Completion Date:	6/10/2002
Last Workover Date:	
Reviewed by:	1/7/2021 S. Gomez



TD - 7952'

Surface Casing: (4/9/2002)
Drilled 14-3/4" surface hole to 300'. Ran 7 jts 10-3/4" 40.5# K-55 csg set at 284'.
Cmt'd w/ 260 sx Type III RMS (361 cf) 14.5#, 1.41 Yield
Circulated 8 bbls of good cmt to surface.

Drilled 9-7/8" intermediate hole to 3602'. Ran 82 jts 7-5/8" 26.4# K-55 csg set at 3602'. Cemented lead w/ 575 sxs (1195 cf) 12.1#, 2.08 Yield Type III 65/35 poz. Followed by 255 sx (354 cf) 14.5#, 1.4 Yield Type III
Circulated 12 bbls of good cement to surface. TOC at Surface

Production Casing: (4/19/2002)
Drilled 6-3/4" production hole to 8300'. Ran 178 jts 5-1/2" 17# N-80 csg set at 7952'.
Pump scavenger cmt w/ 30 sx (121 cu.ft) 11.5# 2.66 Yield of Premium Light HS

Cement w/ 245 sxs (498 cu.ft) 12.5# 2.03 Yield Premium Light HS

TOC at 2770' per CBL (4/27/2002)

Intermediate Casing: (4/15/2002)

Tubing: MV (06/10/2002)	Length (ft)	
KB	14.5	*16' WO KB
(178) 2-1/16" 3.25# J-55 IJ 10rd tbg jt	5753	
SN (1.5" ID)	0.80	
(1) 2-1/16" 3.25# J-55 IJ 10rd tbg jt	33	
(1) 6' perf sub	5.7	

	Set at:	5807 ft	
Tubing: DK (06/09/2002)		Length (ft)	
KB		14.5	*16' WO KB
(1) 2-1/16" 3.25# J-55 IJ 10rd tbg jt		33.22	
(2) 2-1/16" 3.25# J-55 pup jts (4', 8')		12	
(182) 2-1/16" 3.25# J-55 IJ 10rd tbg jts		5888.9	
Seal bore assembly w/ 5 seals		5.7	
(58) 2-1/16" 3.25# J-55 IJ 10rd tbg jts		1878.9	
SN (1.5" ID)		0.8	
(1) 2-1/16" 3.25# J-55 IJ tbg jt		31.5	
1/2 muleshoe		1	

1/2 muleshoe		1	
	Set at:	7867 ft	
Perforations: (05/24/2002)			
Cliffhouse/Menefee: (4370'-5550') 24 sh	nots, 0.38"; 4370	0', 4400', 04', 4535', 42', 46', 4611',	

Cliffhouse/Menefee: (4370'-5550') 24 shots, 0.38"; 4370', 4400', 04', 4535', 42', 46', 4611', 4750', 5121', 24', 48', 86', 5227', 5307', 45', 47', 49', 5402', 03', 05', 07', 48', 50', 5550'.

Frac w/ 80,000# 20/40 sand in 1,739 bbls slickwater

Point Lookout: (5584'-5817') 32 shots, 0.38"; 5584', 88', 93', 95', 97', 99', 5601', 05', 08', 18', 22', 25', 27', 30', 34', 37', 41', 47', 51', 55', 76', 79', 89', 97', 99', 5710', 15', 39', 46', 84', 5800', 17'.

Frac w/ 80,000# 20/40 sand in 1,825 bbls slickwater

Dakota: (7804'-7904') 20 shots, 0.38"; 7804', 06', 08', 10', 13', 15', 17', 19', 47', 49', 52', 54', 56', 59', 71', 76', 96', 98', 7902', 04'.

Acidized w/ 500 gals 15% HCL

Frac w/ 75,000# 20/40 Acfrac resin coated proppant w/ 20Q Vistar foam

Formations:

Formations:		
Fruitland Coal-	2881'	
Pictured Cliffs-	3131'	
Cliff House-	5330'	
Menefee-	5375'	
Point Lookout-	5583'	_
Mancos-	5926'	
Dakota-	7802'	

Additional Notes:

Max deviation of 1.5° @ 5200'

Weatherford locator seal assembly for 2.688" seal bore consisting of: Locator sub w/ 2-1/16" IJ box, Five nitrile chevron seal units, tubing adapter w/ 2-1/16" IJ pin.



Wellbore Schematic

Well Name: Rosa Unit 5B

Location: Sec 26, T31N, R06W 715' FNL & 1835' FEL

County: Rio Arriba

API #: 30-039-26927

Co-ordinates: Lat 36.875927°, -107.4294357° NAD 83

Elevations: GROUND: 6309'

KB: 6323.5'

Depths (KB): PBTD: 7932'

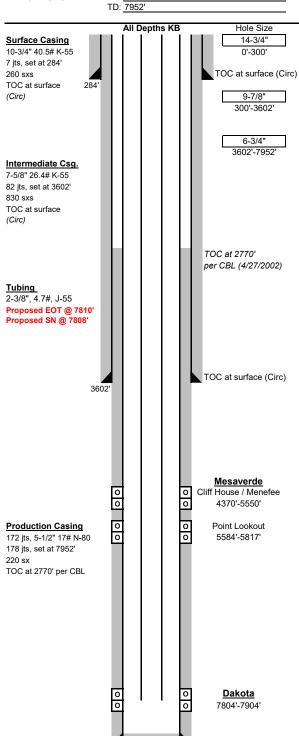
 Date Prepared:
 2/4/2021 Hespe

 Last Updated:
 4/9/2002

 Spud Date:
 4/9/2002

 Completion Date:
 6/10/2002

 Last Workover Date:
 4/9/2002



PBTD - 7932' TD - 7952'

Surface Casing: (4/9/2002)			
Drilled 14-3/4" surface hole to 300'. Ran 7 its 10) 3/4" 40 5# K-55 csg set at 284'		
Cmt'd w/ 260 sx Type III RMS (361 cf) 14.5#, 1.	Ŭ		
Circulated 8 bbls of good cmt to surface.	41 Held		
Circulated 6 bbis of good crit to surface.			
Intermediate Casing: (4/15/2002)			
Drilled 9-7/8" intermediate hole to 3602'. Ran 82	2 jts 7-5/8" 26.4# K-55 csg set at 3602'.		
Cemented lead w/ 575 sxs (1195 cf) 12.1#, 2.08	3 Yield Type III 65/35 poz.		
Followed by 255 sx (354 cf) 14.5#, 1.4 Yield Ty	pe III		
Circulated 12 bbls of good cement to surface. T	OC at Surface		
Production Casing: (4/19/2002)			
Drilled 6-3/4" production hole to 8300'. Ran 178 jts 5-1/2" 17# N-80 csg set at 7952'.			
Pump scavenger cmt w/ 30 sx (121 cu.ft) 11.5#			
Cement w/ 245 sxs (498 cu.ft) 12.5# 2.03 Yield	Premium Light HS		
TOC at 2770' per CBL (4/27/2002)			
Tubing:	Length (ft)		
KB	14.5		
(~242) 2-3/8" 4.7# J-55 tubing joints	7759.5		
	2		
(1) 2-3/8" x 2' 4.7# J-55 marker joint (1) 2-3/8" 4.7# J-55 tubing joint	32		
SN (1.78" ID)	<u>52</u> 1		
1/2 muleshoe collar w/ expendable check	<u></u>		
Lengths estimated based on proposed landi	•		
Set			
Perforations: (05/24/2002)	at. 7010 it		
Cliffhouse/Menefee: (4370'-5550') 24 shots, 0.3	8": 4370' 4400' 04' 4535' 42' 46' 4611'		
Cililiouse/Meneree. (4370-3330) 24 Shots, 0.3	0,4370,4400,04,4333,42,40,4011,		

Point Lookout: (5584'-5817') 32 shots, 0.38"; 5584', 88', 93', 95', 97', 99', 5601', 05', 08', 18', 22', 25', 27', 30', 34', 37', 41', 47', 51', 55', 76', 79', 89', 97', 99', 5710', 15', 39', 46', 84', 5800', 17'.

Frac w/ 80,000# 20/40 sand in 1,825 bbls slickwater

4750', 5121', 24', 48', 86', 5227', 5307', 45', 47', 49', 5402', 03', 05', 07', 48', 50', 5550'

Frac w/ 80,000# 20/40 sand in 1,739 bbls slickwater

Dakota: (7804'-7904') 20 shots, 0.38"; 7804', 06', 08', 10', 13', 15', 17', 19', 47', 49', 52', 54', 56', 59', 71', 76', 96', 98', 7902', 04'.

Acidized w/ 500 gals 15% HCL

Frac w/ 75,000# 20/40 Acfrac resin coated proppant w/ 20Q Vistar foam

Formations:		
Fruitland Coal-	2881'	
Pictured Cliffs-	3131'	
Cliff House-	5330'	
Menefee-	5375'	
Point Lookout-	5583'	
Mancos-	5926'	
Dakota-	7802'	

Max deviation of 1.	5° @ 5200′	
Proposed tubing la	nding depth at 7810' or within one joint deeper.	

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

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**

COMMENTS

Action 17242

COMMENTS

Operator:			OGRID:	Action Number:	Action Type:
LOGOS OPERATING, LLC	2010 Afton Place	Farmington, NM87401	289408	17242	C-107A

Created By	Comment	Comment Date
kpickford	KP GEO Review 2/8/2021	02/08/2021

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

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 17242

CONDITIONS OF APPROVAL

_						
Op	erator:			OGRID:	Action Number:	Action Type:
	LOGOS OPERATING, LLC	2010 Afton Place	Farmington, NM87401	289408	17242	C-107A

OCD Reviewer	Condition
kpickford	None