

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBBS
HOBBS OGD

MAR 20 2012

FORM APPROVED
OMB No 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
APACHE CORPORATION

3a. Address
303 VETERANS AIRPARK LANE, STE. 3000, MIDLAND, TX 79705

3b. Phone No. (include area code)
432 818 1906

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 28 T19S R32E 660 FSL & 830 FWL

5. Lease Serial No
NMNM111963

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
SOUTH LUSK 28 FEDERAL #001

9. API Well No.
30 025 36992

10. Field and Pool or Exploratory Area
LUSK ; BONE SPRING, SOUTH

11. Country or Parish, State
LEA CO., NM

12 CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other COMPLETION
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☒ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleting horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleting in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

APACHE CORPORATION PROPOSES TO WORKOVER THIS WELLBORE BY PLUGGING BACK THE MORROW THEN RECOMPLETING TO THE BONE SPRINGS AND RETURNING THE WELL TO PRODUCTION USING THE ATTACHED PROCEDURE.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

14 I hereby certify that the foregoing is true and correct Name (Printed/Typed)

BEV HATFIELD

Title SR STAFF REGULATORY TECH

Signature

Date 12/21/2011

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

PETROLEUM ENGINEER

Title

Office

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

(Instructions on page 2)

APR 04 2012

APACHE CORPORATION

11/3/2011

SOUTH LUSK 28 FED #1

COMPLETION PROCEDURE

Casing: 4-1/2", 11.6 lb/ft, N-80
ID = 4.000"
Drift = 3.875"
Capacity = 0.0155 BBL/ft
Burst = 7780 psi; 80% = 6224 psi

Tubing:

KB = 28 ft (AGL) PBD = 12,710' KB TD = 12,850' KB

1. Spot 500 BBL wtr tanks & BOP onto location. Load all 500 BBL tanks with W/fresh wtr to be used for stimulation work. Set an extra tank onto location for a test flow back tank following fracturing.
2. MIRU DDP. RU BOP. PU & TIH W/3-7/8" bit, bit sub and tag CIBP @ 12,710'. POOH.
3. Plug back Morrow perms 12,462 - 12,680' with CIBP with cmt cap if necessary per BLM guidelines. Load & pressure test casing to 3000 psi for 2 min with 2% Kcl.
4. MIRU wireline. Run CNL-GR-CCL log PBD to surface. Correlate to the GR on Halliburton Spectral Density Dual Spaced Neutron dated 2/1/06. POOH. **(Have copies of this log sent to the attention of Mark Thomas in the Midland office immediately after running.)**
5. Perforate the 2nd Bone Spring zone @ 9144, 50, 75, 9226, 32, 39, 47, 93, 97, 9305, 12, 20, 34, 39, 55, 65, 73, 88, 9400, 10, 43, 60, 68, 91, 9500, 04, 90 & 94' (1JSPF - 28 holes) using a charge that generates a .37" - .42" diameter hole with a minimum 21" penetration. Utilize the CNL-GR-CCL Log from step 4 to correlate depths. RD WL.
6. TIH with 2 3/8" tubing w/SN & PKR. Spot acid across perms. PU & set PKR @ +/-9050'. Test backside to 1000 psi.
7. Acidize down tbg W/ 5,000 gals of 15% NEFE HCl W/additives using 40 ball sealers to divert evenly spaced throughout job at max rate but not exceeding 5000 psi surface pressure. Rlse PKR & knock balls off perms. If time allows, reset PKR @ +/-9050' & swab perms to cleanup. TOH W/tbg & PKR.
8. MIRU frac services. Frac the 2nd Bone Spring dn csg according to vendor recommended procedure.
9. Flow back well until dead. RU reverse unit & swivel.
10. TIH W/3-7/8" bit. Check for fill and CO well if necessary. Reverse circ clean. TOH.
11. TIH W/SN & pkr. Set @ +/-9050'. RU swab equip. Swab to cleanup well, attempt to recover load, & test zone.
12. RD swab equip. TOH.
13. Hydrotest in hole with W/tbg for production as specified by the Artesia office. TIH W/pump & rods as specified by the Artesia office. Production Test for 6 weeks.

14. POOH w/Production Equipment. Run RBP TO 5500' and test to 4000 psi.
 15. Perforate the Brushy Canyon zone @ 5245-75 & 5380-5425' (1 JSPF) using a charge that generates a .37" - .42" diameter hole with a minimum 21" penetration. Utilize the CNL-GR-CCL Log from step 4 to correlate depths. RD WL.
 16. TIH with 2 3/8" W/SN & PKR. Spot acid across perms. PU & set PKR @ +/-5150'. Test backside to 1000 psi.
 17. Acidize down tbg W/ 5,000 gals of 15% NEFE HCl W/additives using 150 ball sealers to divert evenly spaced throughout job at max rate but not exceeding 5000 psi surface pressure. Rlse PKR & knock balls off perms. If time allows, reset PKR @ +/-5150' & swab perms to cleanup. TOH W/tbg & PKR.
 18. MIRU frac services. Frac the Brushy Canyon dn csg according to vendor recommended procedure.
 19. Flow back well until dead. TIH w/2 3/8" SN. Check for fill on RBP and clean out. If no fill over perms, TOH. TIH W/PKR & swab test Brushy Canyon. Evaluate production capability.
 20. Retrieve RBP & TOH.
 21. Hydrotest in hole with W/tbg for production as specified by the Artesia office. TIH W/pump & rods as specified by the Artesia office. Production Test.
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API 30-025-36992

Sec 28 T-19S R 32E 660 FSL + 830 FWL

Apache Corp.

GROUP:	Permian North	DATE:	Oct. 04, 2011
FIELD:	Lusk (Mariner)	BY:	SNH
LEASE/UNIT:	South Lusk 28 Federal	WELL:	#1
COUNTY:	Lea	STATE:	New Mexico
API NUMBER:	30-025-36992		

KB =
GL = 3557'

30" conductor @ 40' cmt'd to surface
13 3/8" 68# K-55 Set @ 810'
CMT W/ 665 SXS (TOC = SURF)

DV
Tool @ 2800'
9 5/8" 47# K-55 Set @ 4470'
CMT W/ 3650 SXS (TOC = 312')

DV
Tool @ 4422'
7" 23# NS-110 Set @ 6618'
CMT W/ 1070 SXS (TOC = 2784')

2 3/8" TUBING @ 12398'

ECP & DV
Tool @ 10410'

MIDDLE MORROW
12462'-12470' (2 JSPF, 16 holes)
12490'-12497' (2 JSPF, 14 holes)
12675'-12680' (2 JSPF, 10 holes)

10/08: CIBP set @ 12710'
LOWER MORROW
12718'-12722' (4 JSPF, 17 holes)

4 1/2" 11.6# N-80 Set @ 12850'
CMT W/ 860 SXS (TOC = 6420' Estimated)

TD = 12850'
PBTD = 12710'

LEASE: South Lusk 2B Federal
 FIELD: LUSK
 OPER: APA
 REGR: BONE SPRING 2
 SORT_CODE:

Date: 11/04/2011
 Time: 07:53:59
 DBS: PDRGLG2011
 Settings: 2011
 Scenario: PRR

KEYWORD & Ref. Code	COMBINED INPUT DATA				INITIAL CALCULATED DATA					
	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @ End Pt.	Init. Diff	Init. Rate	Final Rate			
400 START	11/2011									
401 OIL	75.00 X B/D	12.00 EXP	B/1.15 67.00	36.876 3/2018	67.0000	2281.	189.			
402 "	X B/D	X MB	EXP 12.00	53.673 3/2041	12.0000	189.	10.			
403 GAS/OIL	1.50 1.50 M/B	TO LIFE	LOG TIME	3/2041						
500 PAJ/GAS	-0.18 X \$/M	TO LIFE	PC 0.00	3/2041		-0.180	-0.180			
501 PAJ/OIL	-3.95 X \$/B	TO LIFE	PC 0.00	3/2041		-3.950	-3.950			
502 PAJ/NGL	0.00 X \$/B	TO LIFE	PC 0.00	3/2041						
505 PRI/OIL	10/10 85.00 85.00 85.00 #			12/2010						
507 "	X 91.07 90.67 88.40 85.15 #			4/2011						
509 "	X 82.60 80.90 80.75 81.60 #			8/2011						
511 "	X 82.73 84.43 85.00 86.70 #			12/2011						
513 "	X 75.00 #/Y			12/2012						
515 "	75.00 X \$/B	TO LIFE	PC/Y 0.00	3/2041		75.000	75.000			
516 PRI/GAS	10/10 4.50 4.50 4.50 #			12/2010						
518 "	X 4.14 4.27 4.42 4.38 #			4/2011						
520 "	X 4.41 4.44 4.50 4.53 #			8/2011						
522 "	X 4.54 4.61 4.76 4.98 #			12/2011						
524 "	X 5.000 5.000 #/Y			12/2013						
526 "	5.00 X \$/M	TO LIFE	PC/Y 0.00	3/2041		5.000	5.000			
527 PRI/NGL	10/10 45.05 45.05 45.05 #			12/2010						
529 "	X 48.230 48.060 46.850 45.130 #			4/2011						
531 "	X 43.780 42.880 42.800 43.250 #			0/2011						
533 "	X 43.620 44.750 45.050 45.950 #			12/2011						
535 "	X 39.75 #/Y			12/2012						
537 "	39.75 X \$/B	TO LIFE	PC/Y 0.00	3/2041		39.750	39.750			
538 PAJ/GAS	-0.50 X \$/M	01/2012 AD	PC 0.00	3/2041		-0.500	-0.180			
540 "	-0.50 X \$/M	01/2013 AD	PC 0.00	3/2041		-0.500	-0.100			
542 "	-0.50 X \$/M	01/2014 AD	PC 0.00	3/2041		-0.500	-0.180			
544 "	-0.50 X \$/M	TO LIFE	PC 0.00	3/2041		-0.500	-0.180			
600 ATK	2.50 X %	TO LIFE	PC 0.00	3/2041		0.025	0.025			
601 OFC/W	1500.00 X \$/M	TO LIFE	RSC COST	3/2041		1500.000	1500.000			
602 ATK	0.00 X %	01/2013 AD	PC 0.00	3/2041			0.025			
604 STX/OIL	8.29 X %	TO LIFE	PC 0.00	3/2041		0.083	0.083			
606 STX/GAS	9.14 X %	TO LIFE	PC 0.00	3/2041		0.091	0.091			
608 STX/NGL	9.14 X %	TO LIFE	PC 0.00	3/2041		0.091	0.091			
610 STX/BGS	0.00 X \$/M	TO LIFE	PC 0.00	3/2041						
705 LGE/NI	50.0000 D %	TO LIFE	FLAT 0.00	3/2041		0.500	0.500			
720 NET/OIL	37.5000 D %	TO LIFE	FLAT 0.00	3/2041		0.375	0.375			
740 NET/GAS	37.5000 D %	TO LIFE	FLAT 0.00	3/2041		0.375	0.375			
OVERLAYS	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @ End Pt.	Init. Diff	Init. Rate	Final Rate			

900 S	277	8/277	X	FRAC	TO	LIFE	MUL	146.00	3/2041
901 S	/274	8/274	X	FRAC	TO	LIFE	MUL	145.00	3/2041

INVESTMENTS	Tangible	Intang Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 COMPL	412.55	345.95 M&G	0.00 MOS	PC	0.00	758.500	11/2011	0	758.5
801 COMPL	0.00	135.00 M&G	0.00 MOS	PC	0.00	135.000	11/2011	0	135.0

MISCELLANEOUS DATA PARAMETERS

201 P(G) 100.00
 202 BTU 1.00
 203 SHRINK 0.64
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 01/1993 Time Frames : 12.81*12
 P.W. Date : 01/2011 Primary PW% : 12.0 Discount Freq. : MO
 Report Date : 01/2011
 Qualifiers : Prod = PRE Price = PLAN Cost = PRE Owner = APA
 Title = DEFAULT Misc = PRE Invest = PRE Overlay = DEFAULT

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DATE      : 11/04/2011
TIME      : 07:53:59
DBS       : PBDRLG2011
SETTINGS  : 2011
SCENARIO  : PRE
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AS OF DATE: 01/2011

-END-		-GROSS PRODUCTION-				-NET PRODUCTION-				-----SALES INCOME-----			
MO-YEAR	COUNT	OIL	GAS	NGL	OIL	GAS	NGL	OIL	GAS	NGL	TOTAL		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
		(MB)	(MMCF)	(MB)	(MB)	(MMCF)	(MB)	(MG)	(MG)	(MG)	(MG)		
12-2011	1.	3.885	3.730	0.000	1.457	1.399	0.000	119,232	5,049	0.000	125,081		
12-2012	1.	12.273	11.782	0.000	4.602	4.418	0.000	327,002	19,087	0.000	346,089		
12-2013	1.	6.529	6.268	0.000	2,448	2,351	0.000	173,966	10,154	0.000	184,120		
12-2014	1.	4.583	4.400	0.000	1,719	1,650	0.000	122,905	7,127	0.000	129,932		
12-2015	1.	3.571	3.428	0.000	1,339	1,286	0.000	95,146	5,554	0.000	100,700		
12-2016	1.	2.944	2.826	0.000	1,103	1,060	0.000	78,432	4,578	0.000	83,010		
12-2017	1.	2.514	2,413	0.000	0.943	0.905	0.000	66,983	3,910	0.000	70,893		
12-2018	1.	2.197	2.109	0.000	0.824	0.791	0.000	58,546	3,417	0.000	61,964		
12-2019	1.	1.534	1.856	0.000	0.725	0.696	0.000	51,518	3,007	0.000	54,525		
12-2020	1.	1.342	1.633	0.000	0.638	0.613	0.000	45,336	2,646	0.000	47,982		
12-2021	1.	1.707	1.437	0.000	0.562	0.539	0.000	39,896	2,329	0.000	42,224		
12-2022	1.	1.318	1.265	0.000	0.494	0.474	0.000	35,108	2,049	0.000	37,157		
AFTER	1.	6.855	6.581	0.000	2.571	2.468	0.000	182,635	10,660	0.000	193,296		
TOTAL	1.	51.802	49.730	0.000	19,426	18,649	0.000	1,395,906	80,368	0.000	1,476,274		

-END-		-NET PRICE -		-TAXES -		-EXPENSES -		NET OPER		CAPITAL		ANNUAL		DISC. FHR		CUM. DISC.	
MO-YEAR		OIL GAS NGL	SEV	ADVAD	GTWR	PFR	TOT. LOR	INCOME	INVESTMENT	FNR	%	DISC. FHR	12%	DISC.	12%	DISC.	
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		\$/BBL	\$/MCF	\$/BBL	(MG)	(MG)	(MG)	(MG)	(MG)	(MG)	(MG)	(MG)	(MG)	(MG)	(MG)	(MG)	
12-2011		81.83	4.181	0.00	10.	3.	0.	1,500	110,295	446,750		-336,455		-307,045		-307,045	
12-2012		71.05	4.320	0.00	29.	8.	0.	9,000	300,305	0.000		300,305		255,635		-51,389	
12-2013		71.05	4.320	0.00	15.	4.	0.	9,000	155,553	0.000		155,553		137,731		6,849	
12-2014		71.05	4.320	0.00	12.	3.	0.	9,000	108,497	0.000		108,497		138,321		7,874	
12-2015		71.05	4.320	0.00	8.	2.	0.	9,000	80,997	0.000		80,997		48,774		18,695	
12-2016		71.05	4.320	0.00	7.	2.	0.	9,000	65,187	0.000		65,187		35,034		22,030	
12-2017		71.05	4.320	0.00	6.	2.	0.	9,000	54,358	0.000		54,358		26,077		248,107	
12-2018		71.05	4.320	0.00	5.	1.	0.	9,000	46,379	0.000		46,379		19,862		267,969	
12-2019		71.05	4.320	0.00	4.	1.	0.	9,000	39,730	0.000		39,730		15,529		281,498	
12-2020		71.05	4.320	0.00	4.	1.	0.	9,000	33,882	0.000		33,882		11,569		294,731	
12-2021		71.05	4.320	0.00	4.	1.	0.	9,000	28,736	0.000		28,736		8,761		303,492	
12-2022		71.05	4.320	0.00	3.	1.	0.	9,000	24,208	0.000		24,208		6,590		310,082	
AFTER		71.05	4.320	0.00	15.	4.	0.	87,000	85,751	0.000		85,751		16,345		326,427	
TOTAL		71.06	4.310	0.00	123.	34.	0.	187,500	1131,877	446,750		685,127		326,427		326,427	

		OIL	GAS		
		-----	-----	P.W. &	P.W., \$
		-----	-----	-----	-----
GROSS WELLS		1.0	0.0		365.18
GROSS RES., MR & NHP		51.802	49.730	12.00	345.107
NET RES., MR & NHP		25.501	24.861	12.00	316.427
NET RES., MR & NHP		22.526	18.649	13.00	308.391
NET RQV., MR06/MMCF		19.434	135.203	15.00	277.417
NET REVENUE\$, \$		1395.906	80,368	20.00	213.757
INITIAL PRICE, \$		81.050	4.080	40.00	75.903
INITIAL W.I., PCT.		37.500	37.500	60.00	15.750
				90.00	-25.611
				500.00	-50.057

FDC (\$/DOW)	19.826
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DATE      : 11/04/2011
TIME      : 07:53:59
DBS       : PBDRLG2011
SETTINGS  : 2011
SCENARIO  : PRE
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AS OF DATE: 01/2011

---END---	WORKING	REVENUE	NET	INVESTMENT	-----	DEDUCTIONS	-----	TAKABLE	TAX	INCOME
MO-YEAR	INTEREST	INTEREST	OPER INCOME	& RESV	DEPRECIATION	DEPLETION	INTANGIBLES	INCOME	CREDIT	TAX
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12-2011	50.000	37.500	110.295	446.750	15.471	0.000	240.475	-145.651	0.000	-51.706
12-2012	50.000	37.500	300.305	0.000	48.872	0.000	0.000	251.434	0.000	89.259
12-2013	50.000	37.500	155.551	0.000	26.000	0.000	0.000	129.551	0.000	45.991
12-2014	50.000	37.500	106.497	0.000	18.249	0.000	0.000	88.248	0.000	31.328
12-2015	50.000	37.500	90.997	0.000	14.229	0.000	0.000	56.777	0.000	23.706
12-2016	50.000	37.500	65.187	0.000	11.722	0.000	0.000	53.465	0.000	18.980
12-2017	50.000	37.500	54.358	0.000	10.011	0.000	0.000	44.347	0.000	15.743
12-2018	50.000	37.500	46.378	0.000	8.750	0.000	0.000	37.628	0.000	13.358
12-2019	50.000	37.500	39.730	0.000	7.700	0.000	0.000	32.030	0.000	11.371
12-2020	50.000	37.500	33.082	0.000	6.776	0.000	0.000	27.107	0.000	9.623
12-2021	50.000	37.500	28.736	0.000	5.963	0.000	0.000	22.774	0.000	8.085
12-2022	50.000	37.500	24.208	0.000	5.247	0.000	0.000	18.961	0.000	6.731
AFTER	50.000	37.500	85.751	0.000	27.295	0.000	0.000	58.456	0.000	20.752
TOTAL	50.000	37.500	1131.877	446.750	206.275	0.000	240.475	685.127	0.000	243.220

---END---	CORP.	-----	APIT	-----	-----	-----	-----	-----	-----	-----
MO-YEAR	TAX RATE	ANNUAL	CUMULATIVE	DISC. 0.12%	CUM. DISC.	ANNUAL	CUMULATIVE	DISC. 0.12%	CUM. DISC.	
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12-2011	35.50	-336.455	-336.455	-307.045	-307.045	-284.749	-284.749	-253.413	-253.413	
12-2012	35.50	300.305	-39.150	255.655	-51.389	211.046	-73.702	178.054	-75.359	
12-2013	35.50	155.551	119.402	117.736	56.347	109.560	35.858	82.529	7.170	
12-2014	35.50	106.497	275.899	71.874	138.221	75.169	113.007	50.725	50.725	
12-2015	35.50	90.997	306.896	48.774	186.995	57.293	168.138	34.404	92.130	
12-2016	35.50	65.187	372.083	35.034	222.030	46.207	214.525	24.775	116.905	
12-2017	35.50	54.358	426.442	26.077	248.107	38.615	253.141	18.486	135.391	
12-2018	35.50	46.378	472.819	19.862	267.969	33.020	286.160	14.114	149.505	
12-2019	35.50	39.730	512.545	15.138	283.162	28.359	314.520	10.283	160.380	
12-2020	35.50	33.082	546.432	11.569	294.731	24.659	339.179	8.266	168.586	
12-2021	35.50	28.736	575.168	8.761	303.492	20.652	359.431	6.823	174.877	
12-2022	35.50	24.208	599.376	6.590	310.082	17.477	376.908	4.747	179.624	
AFTER	35.50	85.751	685.127	16.345	326.427	64.999	441.907	12.189	191.813	
TOTAL	35.50	685.127	685.127	326.427	326.427	441.907	441.907	191.813	191.813	

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GROSS WELLS	1.0	0.0								
GROSS RES., MB & MMF	51.802	49.730			DISCFT, YRS.	21.67	10.00		210.237	
NET RES., MB & MMF	25.903	24.865			UNDISCOUNTED PAYOUT, YRS.	2.67	12.00		204.534	
NET RES., MRA & MMF	19.426	18.649			DISCOUNTED PAYOUT, YRS.	2.91	13.00		179.983	
NET BQV., MBOB/MOICEF	22.534	135.203			UNDISCOUNTED NET/INVEST.	1.99	15.00		158.673	
NET REVENUES, MB	1395.906	80.368			DISCOUNTED NET/INVEST.	1.47	20.00		116.237	
INITIAL PRICE, \$	81.050	4.080			RATE-OF-RETURN, PCT.	55.03	40.00		28.156	
INITIAL W.I., PCT.	37.500				INITIAL W.I., PCT.	50.000	60.00		-6.976	
							50.00		-27.913	
								500.00		-18.468

LEASH: South Lusk 28 Federal DATE : 11/04/2011
 FIELD: LUSK TIME : 07:53:59
 OPER: APA DBS : PDRIG2011
 REPR: BONE SPRING 2 SETTINGS : 2011
 SORT_CODE: SCENARIO : PRE

ECONOMIC INDICATORS

AS OF DATE: 01/2011

B.F.I.T. WORTH M\$-----	A.F.I.T. WORTH M\$-----	A.F.I.T. BONUS M\$-----
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PRESENT WORTH PROFILE AND
 RATE-OF-RETURN VS. BONUS TABLE

0.	685.127	441.907	685.127
10.	365.158	218.237	282.927
11.	345.107	204.534	262.556
12.	326.427	191.813	243.997
13.	308.991	179.983	227.032
15.	277.417	158.673	197.164
20.	213.757	116.237	140.201
25.	165.885	84.915	100.183
40.	75.903	28.156	31.849
50.	40.528	7.073	7.863
60.	15.750	-6.976	-7.655
70.	-2.199	-16.594	-18.030
90.	-25.611	-27.973	-29.956
100.	-33.344	-31.251	-33.286
500.	-50.057	-18.468	-18.791

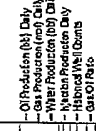
RATE OF RETURN, PCT.	68.8	55.0
UNDISCOUNTED PAYOUT, YRS.	2.23	2.67
DISCOUNTED PAYOUT, YRS.	2.44	2.91
UNDISCOUNTED NET/INVEST.	2.53	1.99
DISCOUNTED NET/INVEST.	1.80	1.47

WI: 50.000 DMC:
 WRI: 37.500 CMC:
 COE: 100. NRWI (M\$): 446.750

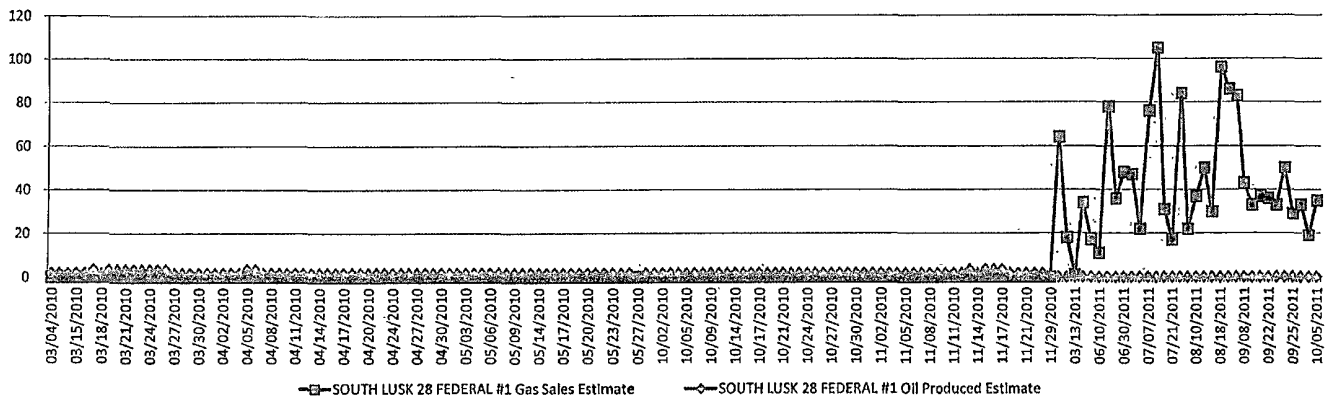
	MMCP	MDO	MNOL	BMHCP
GROSS RES:	77.703	51.802	0.000	388.513
NET RES:	18.649	19.426	0.000	135.203

APIT PV12 (M\$): 191.813
 APIT ROR (%): 55.0
 P.C. \$/BMMCP: 3.304

Morvow



South Lusk 28 Federal #1



All KPIs for Property by Month

Measures	PropertyDim Property Number:	Nov 2010	Dec 2010	Jan 2011	Feb 2011	Mar 2011	Apr 2011	May 2011	Jun 2011	Jul 2011	Aug 2011	Sep 2011
Gross OIL	32108401											
Gross GAS	32108401		608	47	50	71	48	129	297	411	396	307
Apache OIL	32108401											
Apache OIL/Day	32108401											
Apache GAS	32108401			27	28	41	27	74	170	235	226	179
Apache GAS/Day	32108401			1	1	1	1	2	6	8	7	6
Apache NGLS	32108401											
Apache NGLS/Day	32108401											
Apache Volume BOE/Day	32108401			0	0	0	0	0	1	1	1	1
Oil Sales	32108401											
Gas Sales	32108401			\$149	\$155	\$227	\$141	\$182	\$824	\$593	\$523	\$1,036
NGL Sales	32108401											
Total Revenue	32108401			\$149	\$155	\$227	\$141	\$182	\$824	\$593	\$523	\$1,036
Direct Expense	32108401			\$0	\$8,438	\$3,824	\$3,482	\$3,390	\$376	\$2,447	\$3,076	\$2,559
Direct Expense: \$/BOE	32108401		1. # INF	\$0.00	\$1,808.20	\$559.64	\$773.77	\$274.84	\$13.28	\$62.48	\$102.89	\$85.93
Gross Direct Expense	32108401			\$0	\$9,001	\$4,079	\$3,714	\$3,616	\$402	\$2,610	\$4,134	\$2,730
Ad Valorem Tax	32108401			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Prod Severance Tax	32108401			\$14	\$14	\$21	\$13	\$17	\$77	\$55	\$40	\$96
Transportation Cost	32108401											
Workover Expense	32108401			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Operating Expense	32108401			\$0	\$14	\$8,453	\$3,845	\$3,495	\$3,407	\$453	\$2,502	\$3,924
Lease Level Income	32108401			\$135	(\$8,298)	(\$3,618)	(\$3,354)	(\$3,225)	\$371	(\$1,909)	(\$3,401)	(\$1,619)
Margin	32108401			90.68 %	-5,306.72 %	-1,594.28 %	-2,385.64 %	-1,776.16 %	14.99 %	-321.81 %	-649.94 %	-156.19 %
Realization: OIL	32108401											
Realization: GAS	32108401			\$5.52	\$5.52	\$5.54	\$5.21	\$2.45	\$4.84	\$2.52	\$2.32	\$5.80
Realization: \$/NGL	32108401											

**South Lusk 28 Fed #1
30-025-36992
Apache Corporation
March 19, 2012
Conditions of Approval**

Notify BLM at 575-393-3612 a minimum of 24 hours prior to commencing work.

Work to be completed by September 30, 2012.

- 1. Surface disturbance beyond the originally approved pad must have prior approval.**
- 2. Closed loop system required.**
- 3. Operator to have H2S monitoring equipment on location.**
- 4. A minimum of a 3000 (3M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.**
- 5. Steps 1 & 2 – OK**
- 6. Step 3 - The following revised sequence is required to permanently plug back the well from the Morrow formation in compliance with BLM guidelines:**
 - Step 3a - Review well records to evaluate cement quality behind 4-1/2" casing in the interval of 12710' to top of Bone Springs Formation. (If wellfile data is not adequate, then a CBL must be run to verify cement quality behind casing up to Bone Springs.) If necessary, contact the BLM to discuss appropriate plan for required annular isolation of the Morrow and Wolfcamp formations.**
 - Step 3b - Verify current PBTD (BLM to witness). Spot mud laden fluid mixed with 25 sx of gel per 100 bbls of water over the interval 12710' (PBTD) up to 12400'.**
 - Step 3c - Isolate the Morrow perforations by setting the proposed CIBP 50' above the uppermost perforation (12462') in the Morrow Formation. Tag the CIBP.**
 - Step 3d - Place a ±428' Class H cement plug on the CIBP and across the top Morrow in the interval from 11984' - 12412' (CIBP). Operator has the option set one Class H plug from CIBP to above Wolfcamp.**
 - Step 3e - Notify BLM to witness the tag depth. Pressure test the casing. Operator could exceed the allowed 70% of burst test pressure if the annulus between the 4.5" and 7" casing is not also full of fluid.**

Step 3f – Spot mud laden fluid from 11984' up to 10522'. Place a balanced Class H cement plug across the top Wolfcamp from 10284' - 10522'. This plug will be $\pm 238'$ in length, or 25 sx, whichever is greater; and will be across the top of the Wolfcamp formation and the DV tool at 10410'. If necessary increase slurry volume. WOC.

Step 3g - Verify the top of plug to establish the new PBTD for production. Notify BLM to witness the tag depth.

Step 4 – OK. (If preferred by Operator, the cased hole logging requirement can be done after step 3d.) Electronic copies of all logs run are to be provided to BLM Petroleum Engineering. PDF format submitted by email is sufficient.

Steps 5 through 18 – Ok.

Step 19 – Operator will need to submit a sundry requesting down hole commingle approval.

Step 20 through 21 - ok

- 7. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of workover operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.**
- 8. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.**
- 9. Subsequent sundry required detailing work done and completion report for new zone. Operator to submit a wellbore schematic.**

TMM 031912