Form 3160-5. (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR

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1 8 rm.			5 Ile

FORM APPROVED OMB NO. 1004-0135

BI	UREAU OF LAND MANA	GEMENT HE	EIVE	Expires	: July 31, 2010
				5 Llease Serial No NMLC029387E)
Do not use thi	s form for proposals to	drill or to re-enter an SEP	05 2012	6. If Indian, Allottee	
apandoned wei	I. Use form 3160-3 (AP	D) ioi sucii piopysuis.	D ARTES	r .	
SUBMIT IN TRI	PLICATE - Other instruc			7. If Unit or CA/Agre	eement, Name and/or No

Type of Well ☐ Oil Well ☐ Gas Well ☒ Oth	ner: INJECTION			8. Well Name and No BENSON SHUG	
2 Name of Operator		ERIN CARSON		9 API Well No	
CHESAPEAKE OPERATING				30-015-25966-	00-S1
3a Address		3b. Phone No (include area code	e)	10. Field and Pool, or	r Exploratory
OKLAHOMA CITY, OK 73154	1-0496	Ph: 405-935-2896		SHUGART	
4 Location of Well (Footage, Sec., 7		n)		11. County or Parish	, and State
Sec 30 T18S R31E SWSW 9	30FSL 660FWL			EDDY COUNT	Y, NM
					,
12. CHECK APPI	ROPRIATE BOX(ES) TO	O INDICATE NATURE OF	NOTICE, R	EPORT, OR OTHE	ER DATA
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION		3561
	— Apidiza	— Dagnan	— Droduo	tion (Stort/Daguma)	
☐ Notice of Intent	Alter Cosing	Deepen — Erecture Treat	_	tion (Start/Resume)	Water Shut-Off
Subsequent Report	Alter Casing	Fracture Treat	Reclam		☐ Well Integrity
Final Abandonment Notice	☐ Casing Repair☐ Change Plans	New Construction New Construction New Construction New Construction	Recomp	rarily Abandon	Other
I mai Abandonnent Notice	Convert to Injection	-	☐ Water I	-	
13. Describe Proposed or Completed Op	-	_	_		ovimate duration thereof
If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f	ally or recomplete horizontally, rk will be performed or provide I operations. If the operation re bandonment Notices shall be fi	give subsurface locations and meas the Bond No. on file with BLM/BL sults in a multiple completion or rec	ured and true v A. Required su completion in a	ertical depths of all pert absequent reports shall be new interval, a Form 31	inent markers and zones. be filed within 30 days 160-4 shall be filed once
CHESAPEAKE HAS PLUGGI DIAGRAM.	ED THE ABOVE WELL. A	ATTACHED ARE THE PLUG	GING PROC	EDURE AND THE	WELLBORE
CHK PN 891191					
		•			
			•	44 . a a a a mlm	aning af the well be
		RECLAMATION	;	Liability under bo	gging of the well bore nd is retained until
		DUE 12-3-15	1	Surface restoration	is completed.
					- ,
14 I hereby certify that the foregoing is	s true and correct.				
	Electronic Submission #	145904 verified by the BLM We AKE OPERATING INC, sent to	ell Informatio	n System	
	mitted to AFMSS for proc	essing by WE\$LEY INGRAM or	1 08/20/2012	•	
Name (Printed/Typed) FRIN CAL	RSON	Title ALITHO	ADIZED DEI	PRESENITATIVE	

Date 08/15/2012 Signature (Electronic Submission) THIS SPACE FOR FEDERAL OR STATE OFFICE USE JAMES A AMOS TitleSUPERVISOR EPS Approved By Date 09/01/2012 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. Office Carlsbad

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.

5/17/2012

HELD PJSM - MIRUSU - CONDUCTED RIG INSPECTIONN/D WELLHEAD & N/U BOP - RELEASED AD1 PACKER - TOH & LD (75) JTS 2 3/8" INJECTION STRING AND PACKER. MIRU REVERSE UNIT AND PIT - SECURED THE WELL & SDFN.

5/18/2012

HELD PJSMTALLIED PIPE. RIH W/ TRICONE BIT (6) DRILL COLLARS & (71) JOINTS 2 3/8", L80 WORKSTRING TAGGING UP AT 2,466". CIRCULATED HOLE CLEAN WITH (1) CASING VOLUME - R/U SWIVEL - STARTED DRILLING - RETURNED HAD HEAVY SCALE TO 2,766" (80 JOINTS). CIRCULATED HOLE CLEAN WITH (1) CASING VOLUME - POH WITH (14) JOINTS TO 2,314" (ABOVE PERFS) SECURED THE WELL & SDFWE

5/21/2012

HELD PJSM. CHECKED WELL CONDITIONS - SITP: 450# - BLED OFF PRESSURE. RIH W/ 32 JTS TO 3,305' TAGGING UP. RU SWIVEL. STARTED DRILLINGRECEIVED BACK SMALL AMOUNTS OF SCALE AND SAND. CONTINUE TO DRILL TO TOC AT 3,395'. CIRCULATED HOLE WITH 63 BBL BOTTOMS UP - STARTED TO DRILL RECEIVING BACK CEMENT, RAGS AND SMALL AMOUNTS OF MAGNETIC METAL - DRILLING SLOWED DOWNSIGNIFICANTLY. STOPPED MAKING PROGRESS AT 3,424' (6' SHORT OF GIBP). ROH W/ TUBING AND BHA. BIT SHOWED SIGNIFICANT WEAR ON THE INSIDE OF THE BIT, NUMEROUS TEETH WORN OFF. CLOSED BOP. SDFN

5/22/2012

SITP: 200#. HELD PJSM. BLED OFF PRESSURE. RIH W/ 4 3/4" CONE BUSTER, 6 DRILL COLLARS, 101 JTS AND TAGGED UP AT 3424'. MILLED ON TOP OF FISH RECOVERED BACK SMALL SLIVERS OF METAL, PIECES OF THREADS AND RAG MATERIAL. MADE APPROXIMATELY 6" OF HOLENOT TORQUING UP. PULLED UP, CIRCULATED HOLE BOTTOMS UP WITH 13 BBLS AND ROH W/ TUBING AND BHA. TALLIED NEW TOOLSAND RIH W/ 4 3/4" IMPRESSION BLOCK AND TUBING TAGGING UP ON TOP OF FISH. ROH W/ ASSEMBLY AND TUBING. IMPRESSION BLOCK SHOWED A FISH LOOKING UP THAT IS APPROXIMATELY 3" IN DIAMETER, - SDFN

5/23/2012

SITP: 200#. HELD PJSM.BLED OFF PRESSURE. RIH W/ 4 3/4" SHOE W/ DIAMONDS AND WIRES, 6' EXTENSION, CHANGEOVER BUSHING, JARS, 6 DRILL COLLARSBUMPER SUB - TAGGED UP ON FISH AT 3,426' - WASHED OVER FISH AND CONTINUED TO DRILL SETTING DOWN @ 3,525' PRESSURE DROPPED ON TUBING AND CLIMBED TO 500# ON CASING & STOPPED DRILLING. RIGGED UP VACCUM TRUCK TO TUBING AND SUCKED OF APPROX. 14 BBLS OF WATER AND OIL W/ WELL SHOWING SIGNS OF GAS - POH W/ BHA AND TUBING. FOUND FISH INSIDE THE SHOE AND EXTENSION. FISH WAS A RUBBER SEAL RESEMBLY - PACKER - SLIPS AND A PIECE OF APPROX. 3" COLLAR - SECURED THE WELL & SDFN

5/24/2012

SICP: 150#. HELD PJSM.BLED OFF PRESSURE. RIH W/ 4 3/4" TRICONE BIT (6) DRILL COLLARS AND 104 JOINTS TUBING - TAGGED UP @ 3,524' - DRILLED ON PLUG RECOVERED SMALL PIECES OF METAL - PIECES OF SLIPS AND FRAC BALL PIECES - MADE NO HOLE IN 1 HOUR - STARTED TORQUE UPTRIPPED OUT - BIT HAD EXCESSIVE TOOTH WEAR ON ALL 3 CONES - SECURED THE WELL & SDFN - ORDERED 4 3/4" FLAT BOTTOM SHOE W/ CUTRITE & DIAMONDS AND WIRES.

5/25/2012

SICP: 100#. HELD PJSM.BLED OFF PRESSURE. RIÈ W/ 4 3/4" FLAT BOTTOM SHOE W/ CUTRITE, (6) DRILL COLLARS, JARS, BUMPER SUB AND 104 JOINTS TUBINGTAGGED UP @ 3,524" - INITIATED WASHING OVER PLUG RECOVERED SMALL PIECES OF METAL - PIECES OF SLIPS, CHUNKS OF RUBBER ANDTHREADS - CONTINUED WASHING DOWN TO 3,552" - PUMP PRESSURE STARTED TO RISE - RETURNS SHOWED NO MORE SHAVINGS ANDA LOT OF FRAC SAND.- TOH & RECOVERD LARGE PIECES OF RUBBER - THREADS - LARGE CHUNKS OF METAL AND A LARGE METAL PIECE OF THE PLUG- SECURED THE WELL & SDFN - REVERSE HAND TOOK OLD SHOE IN TO PLACE NEW CUTRITE ON.

5/29/2012

SICP: 160#. HELD PJSM.BLED OFF PRESSURE. RIH W/ 4 3/4" FLAT BOTTOM SHOE W/ CUTRITE, (6) DRILL COLLARS, JARS, BUMPER SUB AND 105 JOINTS TUBINGTAGGED UP @ 3,560' - INITIATED WASHING OVER FISH IN HOLE. RECOVERED SMALL PIECES OF METAL - PIECES OF SLIPS, CHUNKS OFRUBBER FRAC SAND AND SCALE - CONTINUED WASHING DOWN TO 3,575' - PUMP PRESSURE STARTED TO RISE - TOH & RECOVERDAN 8"X3" SECTION OF MANDREL - RUBBER PIECES - SEVERAL CHUNKS OF SLIPS - LARGE CHUNKS OF METAL - SCALE AND A THREADED / BEVELED 4" SECTION OF MANDREL WITH RUBBER RING AROUND IT - C/O TOOLS RBH W/ SAME BHA AND TAGGED UPAT 3,575'. C/O DOWN PAST LISTED DEPTH OF RBP OF 3,615' - RECOVERED SCALE - FRAC BALLS AND SAND. TAGGED UP AT 3,684'. SET 4 POINTS ON FISH AND MADE NO MORE HOLE. CIRCULATED HOLE CLEAN - RECOVERED SAND AND TINY SLIVERS OF METAL) TOH W/ BHA - NOTHING WAS IN THE SHOE OR EXTENSION WENT THROUGH OLD WELL FILE IDENTYING THAT IN SEPT. 1988 A CEMENT RETAINER WAS PLACED AT 3,690' (3,683' FROM RIG FLOOR) AND

CEMENT WAS SQUEEZED IN PERES AND NEVER DRILLED OUT THEREBY IDENTIFYING TAG AT THIS LOCATION. SECURED THE WELL & SDFN.

5/30/2012

SICP: 160#. HELD PJSM.RIH W/ 4 3/4" TRICONE BIT, (6) DRILL COLLARS AND 109 JTS TAGGING UP AT 3,684' - CALLED JIM AMOS OF THE NEW MEXICO BLM DISCUSSED RECENT FINDINGS IN OLD RECORDS OF A CEMENT RETAINER SET A 3,695' AND 300+ SX OF CEMENT SQUEEZED INTO THE PERFS BELOW - OBTAINED PERMISSION FROM THE BLM TO NOT HAVE TO DRILL PAST THIS POINT - WE COLL D CAP THE RETAINER ANDCONTINUE UP HOLE - CIRCULATED HOLE CLEAN W/ 85 BBLS OF 10# BRINE - R/D REVERSE UNIT & R/U UP CEMENT MIXER AND PUMPMIXED AND CIRCULATED HOLE WITH 90 BBLS OF 9 5# PLUG MUD - POH WITH TUBING AND BHA - LAID DOWN BHA - RBIH WITH(1) 2 3/8" X 4' PERF SUB & (115) JTS TUBING TO 3,682' - SPOTTED 25 SX CLASS C CEMENT - DISPLACED WITH 13 BBLS OF 10# BRINEEST TOC @ 3,537' - PULLED & LAID DOWN (16) JOINTS TO 3,188' - SPOTTED 25 SX OF CEMENT ACROSS THE DV TOOL - DISPLACEDWITH 13 BBLS OF 10# BRINE - EST TOC @ 2,941' - PULLED & LAID DOWN (40) JOINTS TO 1,898' - SECURED THE WELL & SDFN

5/31/2012

SICP: 60#. HELD PJSM.RIH W/ 95 JTS TAGGING TOC @ 3.053' (72' LOWER THAN EXPECTED). ATTEMPTED TO CIRCULATE HOLE - PUMP PRESSURED UP TO 300#INDICATING PLUG TUBING. POH & LAID DOWN (3) JOINTS PLUGGED W/ CEMENT - RBIH WITH (95) JOINT TO 3.053' - R/U CEMENTERS PUMPED 25 SX OF CLASS C CEMENT - DISPLACED WITH 10.8 BBLS OF 10# BRINE. POH W/ TUBING - WOC 3 HOURS - RBIH & TAGGING TOC @ 2.958' - SATISFYING BLM REQUIREMENTS - POH W/ TUBING - P/U & RBIH WITH SETTING TOOL - AND CIBP -, RIH (75) JOINTSET CIBP @ 2.409' - R/U CEMETERS & PUMPED 25 SX OF CLASS C CEMENT - DISPLACED STRING WITH 8.3 BBLS OF 10# BRINEPOH WITH TUBING AND LAID DOWN SETTING TOOL - SECURED THE WELL & SDFN

6/1/2012

HELD PJSMSICP WAS 0 PSI. TOH LAYING DN TBG . R/U WIRELINE TIH TO TAG TOC @ (2,150' CALCULATED) TAGGED @ 1,571', TOH R/D WIRELINETIH WITH TBG TO 2.090' (65 JOINTS) NO OBSTRUCTION. R/U WIRELINE TIH AND TAGGED TOC @ 2,280'. NOTIFIED JOE WITH THE BLMHE SAID IT WAS GOOD. TOH R/D WIRELINE, TOH WITH 17 JOINTS TBG. R/U WIRELINE TIH WITH PERF GUN AND PERFED @ 2.029', TOH R/D WIRELINE. P/U PACKER & TIH - SET @ 1,544'. CQULD NOT PUMP INTO PERFS. HELD 650 PS - NO LEAK OFF - TOH & LAID DOWNTHE PACKER - TBIH AND SPOT 35 SX @ 2,090' (65 JOINTS) PER JIM AMOS BLM. SDFW WOC

6/4/2012

SITP. 0 PSI. HELD PJSM.RIH W/ 60 JTS TAGGING TOC @ 1,918' (100' LOWER THAN CALCULATED).

CONTACTED BLM AND WERE TOLD TO PERFORATE AND ATTEMPTTO SQUEEZE AGAIN - POH W/ TUBING - R/U WIRELINE RIH TAGGING TOC 1,890' - PULLED UP TO 1,880' - PERFORATED 5.1/2" CASINGPOH & R/D WIRELINE - P/U RIH WITH PACKER & (3) JOINTS TUBING - SET PACKER @ 96' - CIRCULATED HOLE WITH 10# BRINE - PRESSUREDUP TO 550# - CASING HELD PRESSURE - BLED OFF PRESSURE - CONTACTED BLM - INSTRUCTED TO SPOT 25 SX OF CEMENT ON TOPOF CURRENT TOC - UNSET PACKER & POH WITH PACKER AND TUBING - RBIH WITH 4' PERF SUB (59) JOITS TUBING TUBING - SPOTTEDA 25 SX OF CEMENT PLUG - DISPLACED WITH 39 BBLS OF 10# BRINE - POH WITH TUBING - LAID DOWN 55 JTS - S/D & WOC FOR 4 HOURSR/U WIRELINE & RIH TAG TOC @ 1,725' - CALLED THE BLM AND THEY WERE SATISFIED - PUH TO 600' - PERFORATED 5 1/2" CASING POH - R/D WIRELINE - SECURED THE WELL & SDFN.

6/5/2012

SITP: 0 PSI. HELD PJSM.RIH W/ 21 JTS. SPOTTED 60 SX OF CEMENT AND DISPLACED WITH 1/4 BBL OF 10# BRINE (ESTIMATED TOC 80'). ROH AND LD TUBING.RU AND RIH W/ WIRELINE AND TU ON TOC AT 244' (164' LOWER THAN ESTIMATED TOC). BLM REPRESENTATIVE TOLD US TO TRY AGAIN. ROH W/ WIRELINE.RU PERF GUNS ON WIRELINE AND PERFED AT BOTH 244' AND 60'. ROH W/ WIRELINE. ATTEMPTED TO PUMP TO SEE IF WE WOULD BE ABLE TO CIRCULATE UP ANNULUS. PUMP DID NOT WORK. CREW BROKE PUMP DOWN AND FOUND THAT CEMENT WAS CAKED ON THE INSIDE OF THE PUMP. CREW CHIPPED CEMENT OUT AND REASSEMBLED PUMP. SWI. SDFN.

6/6/2012

SITP. 0 PSI HELD PJSM, TIH ANS SET PACKER @ 74'. LOADED THE HOLE TRY YO PUMP IN TO THE PERFS @ 244' AND CIRCULATE TO PERFS@60'. WOULD NOT CIRCULATE, WITNESSED BY JOE WITH THE BLM. WE SPOTTED CEMENT 244' TO SURFACE PERBLM. TOOH WITH PACKER AND TBG. CUT OFF WELHEAD AND DIG OUT CELLAR. MAVERICKSET UP THERE WELDER TO INSTALL MARKER. RIGGED DN. FINAL REPORTMOVE TO NEXT WELL

Current Wellbore Schematic

WELL (PN): BENSON SHUGART WFU 30 (891191)
FIELD OFFICE: HOBBS
FIELD: SHUGART (YATES-SEVEN RIVERS-QUEEN-GRAYBURG)
STATE / COUNTY: NEW MEXICO / EDDY
LOCATION: SEC 30-18S-31E, 930 FSL & 660 FWL
ROUTE: HOB-NM-ROUTE 13- MATTHEW LUNA
ELEVATION: GL: 3,561.0 KB: 3,571.0 KB Height: 10.0
DEPTHS: TD: 6,125.0



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Vertical schematic (actual)	Casing Joints	5 1			50 J-55	10	
VOORCOL/ROOMS	DV Tool	V-00000	3000 . 4 \ S 2000			00,000, 7490	W W/MV
	Casing Joints Float Shoe	5 1			50 J-55	3,028	0 6,12
13 3/8 in, 48 00 lb/ft, J-55;	<u> </u>	Nation 1	/2			0,124	
10 0-503.0 ffKB	Perforation	65 1857	. (17	300 (80 (80 C))	T (0)(D)	DI- WILDY	0
nt w/ 450 sx. Circ w/ 50 sx	6/4/2012	ZOF	e/Formation	Mildelines:	Top (ftKB) 60 0	Btm.(ftKB)	Current State Squeezed
200	6/4/2012				600 0		Squeezed
TOC by Vol Calc	6/3/2012	 			1,880 0	1,881 0	Squeezed
	6/1/2012				2,029 0		Squeezed
	12/29/1993	SEVEN RIVERS		2,469 0	2,487 0		
200 St. 1.	9/9/1993 10/25/1988	SEVEN RIV	ERS		2,554 0 3,543 0	2,562 0 3,563.0	
/8 in, 24.00 lb/ff, J-55, 10 0	9/28/1988	GRAYBURG			3,639 0	3,648.0	
-1,979.0 ftKB	10/21/1988	GRAYBURG			3,639.0	3,648 0	
Cmt w/ 1150 sx Circ	9/24/1988	GRAYBURG	-		3,709 0	3,767 0	
	9/17/1988	DELAWARE			4,908 0	4,920 0	
67 	9/8/1988	DELAWARE			5,823 0	5,832.0	
	Stimulatio	ns⇔					
	Stim Details		486236		18. july 4.2		
ented Bridge Plug, 4 95	Type Sand Frac	Date 9/8/19	Zone	1	Top Dep	5,823 0	ottom Depth (ftKB) 5,83
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	Sand Frac	9/8/19		1.33000		5,823 0	5,83
	Bulk Sand	7.7.987	Note :	100 Me		<u>, k‱n</u> Amc	2,000.0 lb
731 3 7 7 9 7 7 1	Bulk Sand	93 S	(48°): 500			32 5 72	20,000:0 lb
	Bulk Sand	146 177	1 /1 W 1 1 W MAN	12/20	s / C./880000-0-2	7 7 2 779 V 7 440	12,000 0 lb
DV Tool	Stim Details	2 1/2 (17.5)	7 L	<u> </u>	18 5740.3		
3,395 0	Type Acidizing	Date 9/19/1	Zone		Top Dep		ottom Depth (ftKB)
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	Туре	Date	Zone	100	Top Dep	h (ftKB) B	ottom Depth (ftKB)
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	Туре	Date	Zone		Top Dept		ottom Depth (ftKB)
st Iron Bridge Plug; 4 95	Acidizing Stim Details	10/25/1		# . Y. ##Y.		3,543 0	3,56
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N N N N N N N N N	Sand Frac	10/27/1	988		1	3,543 0	3,56
ron Bridge Plug, 4 95	Type Bulk Sand		Note	100 Me	and Size	Amic	uńt 🖑 🚬 Ur 2,000 0 lb
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ın; 5,796 0 ftKB	Bulk Sand	000 NO C 2 1 C 388 L800 No. 2	200	12/20	mer (0 % , 2.7.5)	V, W ** 1,03730	12,000 0 lb
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Cmt w/ 460 sx 2 in; 15.50 lb/fl; J-55, 10 0 -6,125 0 ffkB History Event Perf @ 5823-32' w/ 10 shots. FRAC w/ 500 gal 7 5% HC	Stim Details Type Sand Frac	Date 9/11/1!	993 Zone		Top Dept	2,554 0	ottom Depth (ftKB) 2,56
Cmt w/ 460 sx In; 15.50 lb/ff; J-55, 10 0 -6,125 0 ffKB History Event Perf @ 5823'-32' w/ 10 shots. FRAC w/ 500 gal 7 5% HC B Perf @ 4908'-20' w/ 9 shots	Stim Details Type Sand Frac L, 17000 gal of 3	9/11/1! 9/11/1!	993 Zone 993 w/ 2000# 10	00 Mesh,	Top Dept	2,554 0 2,554 0 0 sd, 12000# 1	ottom Depth (fKB) 2,56
Cmt w/ 460 sx in; 15.50 lb/ft; J-55, 10 0 -6,125 0 ftKB listory Event Perf @ 5823-32' w/ 10 shots. FRAC w/ 500 gal 7 5% HC is Perf @ 4908'-20' w/ 9 shots ACDZ 4908'-4920' w/ 500 gal 15% HCI FRAC w/ 22000	Stim Details Type Sand Frac L, 17000 gal of 3 gal 30# X Link G	9/11/1! 9/11/1! 0# X Link Gel 6el, 34000# 20	993 Zone 993 w/ 2000# 10 1/40 sd, 1600	00 Mesh,	Top Dept	2,554 0 B 2,554 0 C S S S S S S S S S S S S S S S S S S	ottom Depth (ftKB) 2,56
Cmt w/ 460 sx 2 in; 15.50 lb/ft; J-55, 10 0 -6,125 0 ftKB History 8 Perf @ 5823-32' w/ 10 shots. FRAC w/ 500 gal 7 5% HC 88 Perf @ 4908'-20' w/ 9 shots 86 ACDZ 4908'-4920' w/ 500 gal 15% HCI FRAC w/ 22000 87 Perfs 3709', 10 5', 25', 26 5', 28', 29.5', 31', 32 5', 34', 35 HCI	Stim Details Type Sand Frac L, 17000 gal of 3 gal 30# X Link G	9/11/1! 9/11/1! 0# X Link Gel 6el, 34000# 20	993 Zone 993 w/ 2000# 10 1/40 sd, 1600	00 Mesh,	Top Dept	2,554 0 B 2,554 0 C S S S S S S S S S S S S S S S S S S	ottom Depth (ftKB) 2,56
Cmt w/ 460 sx 2 in; 15.50 lb/ft; J-55, 10 0 -6,125 0 ftKB History Event 8 Perf @ 5823'-32' w/ 10 shots. FRAC w/ 500 gal 7 5% HC 88 Perf @ 4908'-20' w/ 9 shots 88 ACDZ 4908'-4920' w/ 500 gal 15% HCI FRAC w/ 22000 88 Perfs 3709', 10 5', 25', 26 5', 28', 29.5', 31', 32 5', 34', 35 HCI 88 Perf @ 3639'-48' w/ 1 jspf, 10 shots	Stim Details Type Sand Frac L, 17000 gal of 3 gal 30# X Link G	9/11/1! 9/11/1! 0# X Link Gel 6el, 34000# 20	993 Zone 993 w/ 2000# 10 1/40 sd, 1600	00 Mesh,	Top Dept	2,554 0 B 2,554 0 C S S S S S S S S S S S S S S S S S S	ottom Depth (ft/KB) 2,56
Cmt w/ 460 sx 2 in; 15.50 lb/ft; J-55, 10 0 -6,125 0 ffkB History 8 Perf @ 5823-32' w/ 10 shots. FRAC w/ 500 gal 7 5% HC 88 Perf @ 4908'-20' w/ 9 shots 88 Perfs 3709', 10 5', 25', 26 5', 28', 29.5', 31', 32 5', 34', 35 HCI 88 Perf @ 3639'-48' w/ 1 jspt, 10 shots 988 Perf @ 3639'-48' w/ 10 shots 988 Perf @ 3633'-48' w/ 13 shots. ACDZ w/ 1000 gal 15% HCI	Stim Details Type Sand Frac L, 17000 gal of 3 gal 30# X Link 6 6, 36 5', 3754', 56	Date 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11	993 Zone 993 Zone 993 Zone 993 Zone	00 Mesh, 00 12/20 s	Top Dept	2,554 0 B 2,554 0 C S S S S S S S S S S S S S S S S S S	ottom Depth (ftKB) 2,56
Cmt w/ 460 sx 2 un; 15.50 lb/ft; J-55, 10 0 -6,125 0 ftkB History B Perf @ 5823'-32' w/ 10 shots, FRAC w/ 500 gal 7 5% HC BB Perf @ 4908'-20' w/ 9 shots BB ACDZ 4908'-4920' w/ 500 gal 15% HCI FRAC w/ 22000 BB Perf @ 3639'-48' w/ 10 shots Perf @ 3639'-48' w/ 10 0 shots	Stim Details Type Sand Frac L, 17000 gal of 3 gal 30# X Link 6 6, 36 5', 3754', 56	Date 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11	993 Zone 993 Zone 993 Zone 993 Zone	00 Mesh, 00 12/20 s	Top Dept	2,554 0 B 2,554 0 C S S S S S S S S S S S S S S S S S S	ottom Depth (ftKB) 2,56
Cmt w/ 460 sx 2 in; 15.50 lb/ft; J-55, 10 0 -6,125 0 ffKB History Event 588 Perf 69 5823-32 w/ 10 snots. FRAC w/ 500 gal 7 5% HC 188 Perf 69 4908-320 w/ 500 gal 15% HCl FRAC w/ 22000 188 Perf 89 3709', 10 5', 25', 26' 5', 28', 29.5', 31', 32' 5', 34', 35' HCl 188 Perf 69 3639'-48' w/ 1 jspf, 10 shots 188 Perf 69 3639'-48' w/ 10 shots 188 Perf 69 3543'-353' w/ 13 shots. ACDZ w/ 1000 gal 15% HCl 188 Perf 69 3543'-353' w/ 17000 gal 30# X Link gel, 2000# 10' 188 Perf 69 2554'-62'.	Stim Details Type Sand Frac L, 17000 gal of 3 gal 30# X Link 6 6, 36 5', 3754', 56	Date 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11	993 Zone 993 Zone 993 Zone 993 Zone	00 Mesh, 00 12/20 s	Top Dept	2,554 0 B 2,554 0 C S S S S S S S S S S S S S S S S S S	ottom Depth (ftKB) 2,56
Cmt w/ 460 sx '2 in; 15.50 lb/ft; J-55, 10 0 -6,125 0 ft/kB History Revent 988 Perf @ 5823-32' w/ 10 shots, FRAC w/ 500 gal 7 5% HC 188 Perf @ 4908'-20' w/ 9 shots ACDZ 4908'-4920' w/ 500 gal 15% HCI FRAC w/ 22000 188 Perf @ 3639'-48' w/ 1 jspf, 10 shots 188 Perf @ 3639'-48' w/ 1 jspf, 10 shots 1988 Perf @ 3639'-48' w/ 1 jspf, 10 shots 1988 Perf @ 3639'-48' w/ 1 jspf, 10 shots 1988 Perf @ 3639'-48' w/ 1 jspf, 10 shots 1988 Perf @ 3639'-48' w/ 1 jspf, 10 shots 1988 Perf @ 3639'-48' w/ 10 shots 1988 Perf @ 3639'-48' w/ 10 shots 1988 FRAC 3543'-3563' w/ 17000 gal 30# X Link gel, 2000# 10 1998 Perf @ 2554'-62: 1993 FRAC 2554'-2562' 1999 Perf @ 2469'-87'	Stim Details Type Sand Frac L, 17000 gal of 3 gal 30# X Link 6 6, 36 5', 3754', 56	Date 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11	993 Zone 993 Zone 993 Zone 993 Zone	00 Mesh, 00 12/20 s	Top Dept	2,554 0 B 2,554 0 C S S S S S S S S S S S S S S S S S S	ottom Depth (ft/KB) 2,56
Cmt w/ 460 sx 2 in; 15.50 lb/ft; J-55, 10 0 -6,125 0 ftKB History Event B Perf @ 5823'-32' w/ 10 shots. FRAC w/ 500 gal 7 5% HC B Perf @ 4908'-20' w/ 9 shots B ACDZ 4908'-4920' w/ 500 gal 15% HCI FRAC w/ 22000 B Perfs 3709', 10 5', 25', 26 5', 28', 29.5', 31', 32 5', 34', 35 HCI B Perf @ 3639'-48' w/ 1 jspf, 10 shots B Perf @ 3639'-48' w/ 10 shots B Perf @ 3634'-3563' w/ 17000 gal 30# X Link gel, 2000# 10 Perf @ 2554'-62'. Perf @ 2554'-62'. Perf @ 2564'-62'. Perf @ 2659'-2562' w/ 2000 gal 15% NeFe HCI	Stim Details Type Sand Frac CL, 17000 gal of 3 gal 30# X Link G 7, 36 5', 3754', 56 DO Mesh sd, 1200	Date 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11	993 Zone 993 Zone 993 Zone 993 Zone	00 Mesh, 00 12/20 s	Top Dept	2,554 0 B 2,554 0 C S S S S S S S S S S S S S S S S S S	2,56
Cmt w/ 460 sx 15.50 lb/ft; J-55, 10 0 -6,125 0 ffkB Event 5823'-32' w/ 10 shots. FRAC w/ 500 gal 7 5% HC Perf 69 5823'-32' w/ 10 shots. FRAC w/ 500 gal 7 5% HC Perf 69 4908'-20' w/ 99 shots. ACDZ 4908'-20' w/ 99 shots. ACDZ 4908'-20' w/ 500 gal 15% HCl. FRAC w/ 22000 Perfs 3709', 10 5', 25', 26', 29', 29,5', 31', 32 5', 34', 35 HCl. Perf 69 3639'-48' w/ 1 jspf, 10 shots. Perf 69 3639'-48' w/ 10 shots. Perf 69 3639'-48' w/ 13 shots. ACDZ w/ 1000 gal 15% HC FRAC 3543'-3563' w/ 17000 gal 30# X Link gel, 2000# 10 Perf 69 2554'-2562' Perf 69 2469'-2562' w/ 2000 gal 15% NeFe HCl. FRAC 2469'-2562' w/ 20966 gal gld acid & 45200# 16/30 ACDZ 2469'-2562' w/ 500 gal 15% HCl.	Stim Details Type Sand Frac CL, 17000 gal of 3 gal 30# X Link G 7, 36 5', 3754', 56 DO Mesh sd, 1200	Date 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11	993 Zone 993 Zone 993 Zone 993 Zone	00 Mesh, 00 12/20 s	Top Dept	2,554 0 B 2,554 0 C S S S S S S S S S S S S S S S S S S	ottom Depth (ft/KB) 2,56
Cmt w/ 460 sx 1: 15.50 lb/ft; J-55, 10 0 -6,125 0 ftKB story Event Perf @ 5823'-32' w/ 10 shots, FRAC w/ 500 gal 7 5% HC Perf @ 4908'-20' w/ 9 shots ACDZ 4908'-4920' w/ 500 gal 15% HCI FRAC w/ 22000 Perfs 3709', 10 5', 25', 26 5', 28', 29.5', 31', 32 5', 34', 35 HCI Perf @ 3639'-48' w/ 1 jspf, 10 shots Perf @ 3639'-48' w/ 10 shots Perf @ 3643'-63' w/ 13 shots, ACDZ w/ 1000 gal 15% HCI FRAC 3543'-3563' w/ 17000 gal 30# X Link gel, 2000# 10 Perf @ 2554'-2562' Perf @ 2658'-87'	Stim Details Type Sand Frac CL, 17000 gal of 3 gal 30# X Link G 7, 36 5', 3754', 56 DO Mesh sd, 1200	Date 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11 9/11/11	993 Zone 993 Zone 993 Zone 993 Zone	00 Mesh, 00 12/20 s	Top Dept	2,554 0 B 2,554 0 C S S S S S S S S S S S S S S S S S S	2,56

Current Wellbore Schematic

WELL (PN): BENSON SHUGART WFU 30 (891191)
FIELD OFFICE: HOBBS
FIELD: SHUGART (YATES-SEVEN RIVERS-QUEEN-GRAYBURG)
STATE / COUNTY: NEW MEXICO / EDDY
LOCATION: SEC 30-18S-31E, 930 FSL & 660 FWL
ROUTE: HOB-NM-ROUTE 13- MATTHEW LUNA
ELEVATION: GL: 3,561.0 KB: 3,571.0 KB Height: 10.0
DEPTHS: TD: 6,125.0



