reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.

S	F	-0804	72-A				
6.	IF	INDIAN.	ALLOTTEE	OB	TRIBE	NAME	

APPLICATION	FOR PERMIT T	O DRILL, D	EEPEN,	OR PLUG BA	sek_	6. IF INDIAN, ALLOTTI	EE OR TRIBE NAME
TYPE OF WORK	7. CNIT AGREEMENT NAME						
TIPE OF WELL			SINGLE	MULTIPL:	. —	S. FARM OR LEASE N.	
OIL X GA	ILL OTHER		ZONE	ZONE			* 71 E
NAME OF OPERATOR	- C Di	isian of A+	lantia l	Piahfiald Cor	nn 2017	Tonkin 9. WELL NO.	
DDEESS OF OPERATOR	s Company, Div	- OI AL	Tancic	CICILIEIG COL	iipairy	3	
	Denver, Colorad		10. FIELD AND POOL, OR WILDCAT				
O. DOR JSTO,	port location clearly and	West Lindri	th-Gallup/Da				
	0' FSL & 700' 1					11. SEC., T., R., M., OF AND SURVEY OR	
At proposed prod. zone	•		17-24N-3W				
DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE.			12. COUNTY OR PARIS	H 13. STATE
	rom Lindrith,					Rio Arriba	New Mexi
DISTANCE FROM PROPU	SED*			ACRES IN LEASE	17. NO. 0	OF ACRES ASSIGNED HIS WELL	
PROPERTY OF LEASE L (Also to nearest drig	INE, FT.	1100'	14	65.76		1	60
DISTANCE FROM PROP	SED LOCATION®		19. PROPOS			RY OR CABLE TOOLS	
TO NEAREST WELL, DI OR APPLIED FOR, ON THE	S LEASE, FT.	300'	İ	675	Com	pletion Unit	
ELEVATIONS (Show who	ther DF, RT, GR, etc.) D	CILLING OPERATI	ONS AUTHO	RIZED ARE			VORE WILL START*
	33' GL	PIFCL TO COMP	LIANCE WIT	H ATTACHED	This	When app s action is subject to	roved administrative
	T T	FOLORED FORBIT	Editents' Ce	MENTING PROGRA	M BDD	eal pursuant to 30 (FR 290.
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER P	00T	SETTING DEPTH		QUANTITY OF CEM	
	CASING SET	ON ORIGINA	T COMBT	ETION IN 197	<u>B</u>		
	ing – as per S West Lindrith-G			Case #4703,	0rder	R-4314 EB21	
New dedi	cation plut att	ached.			•	(O) 10 03.7	190° 211.
No addit	ional surface d	isturbance	will be	e required.		M EEP	DM. 3
one. If proposal is to reventer program, if ar	m PROPOSED PROGRAM: IX drill or deepen direction uy.	proposal is to dee	epen or plug	back, give data on p			
SIGNED WRL	vacetor) AMM ==	TLE Ope	erations Mana	iger	DATE Feb	ruary 13, 19
(This space for Fed	eral or State office use						
PERMIT NO.	9		API	PROVAL DATE			<u> </u>
			ITLE			PIRELLE	N
APPROVED BYCONDITIONS OF APPRO	VAL, IF ANY:	·				PROVE	· / ,
		*See Insti	ructions O	n Reverse Side	•	DE MAN	Jun(
	;	A) E	M/0	P		W. WILLEINANAC	JER

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PROCEDURE TO RECOMPLETE

- 1) MIRU, kill well w/2% KCl water
- 2) ND Christmas Tree, NU 3000 psi WP BOPs. Test BOPs to 2500 psi for 15 minutes. Pull 2-3/8", 4.7#, J-55, EUE tubing, NU lubricator & run 5-1/2" EZ Drill Bridge Plug to 7000' on wireline. Set bridge plug @ 7000' & POCH w/wireline.
- 3) Pressure test casing to 3000 psi for 15 minutes.
- 4) Run 4" hollow carrier perforating gun to 6650', perforating an interval 2 ft in length w/4 shots @ 90° phasing. (Each shot 6 inches lower than the previous shot above it). Trip out perforating gun & ND lubricator.
- 5) Run in hole w/2-3/8" tubing and set 5-1/2" Baker Model "C" Full-Bore retrievable cament packer approximately 100' above perforations. Block squeeze interval w/low water loss cement. (Dowell - Class "B", 1% D-60 or comparable).
- 6) Pelease packer and reverse circulate excess cement out of hole. Trip three (3) stands out of the hole and set packer*. Note: If meeded, hold pressure on squeeze to prevent back flow of cement. WOC overnight. *May need to reverse circulate again before setting packer to assure no cement behind Baker packer.
- 7) Pressure test squeeze to 2000 psi for 15 minutes.
- 8) Release Model "C" packer and set it @ 6100'. NO lubricator & run in hole w/1-9/16" through tubing hollow carrier perforating gun. Perforate an interval 2 ft in length w/4 shots @ 90° phasing @ 6200'. (Each shot 6" lower than the previous shot above it). Trip gun out of hole & ND lubricator.
- 9) Block squaeze interval w/low water loss cement (Dowell Class "B", 1% D-60 or comparable). Release packer & reverse circulate excess cement out of the hole. Trip approximately three (3) stands out of the hole & set packer*. Note: If needed, hold pressure on squeeze to prevent back flow of cement. WOC (time to be determined by AOGC -Drilling Supervisor). *May need to reverse circulate again before setting packer to assure no cement behind Baker packer.
- 10) Release Daker Model "C" packer and TOOM. RIH w/2-3/8" tubing and 4-3/4" MI bit and drill out top cement plug. Close pipe rams & test squeeze w/2000 psi for 15 minutes. If squeeze holds, proceed to Step 11; if not, repeat Steps 5 & 6.

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- 11) Run 4-3/4" MT bit in hole & tag bottom plug. Drill out cement plug, close pipe rams & test squeeze w/2000 psi for 15 minutes. If squeeze holds, proceed to Step 12; if not repeat Steps 5 & 6.
- 12) Trip 2-3/8" tubing & 4-3/4" MT bit out of the hole. Run CEL/CCL log on wireline. If cement-pipe bond acceptable, proceed; if not, re-squeeze zone(s) as need be to make job acceptable for fracturing.
- Run 5-1/2" EZ Drill Bridge Plug into hole and set @ 6600', just above bottom squeeze. TIH w/3-1/2", 9.2%, N-80 frac tubing & 5-1/2" R-3 DG standard bore retrievable packer, pressure testing 3-1/2" frac tubing to 6000 psi while TIH. Do not exceed burst rating of 10,160 psi. Set Eaker R-3 DG packer @ 6240'.
- 14) Pressure test casing and bridge plug to 3000 psi for 15 minutes.
- 15) NU lubricator & TIE w/2-3/4" through tubing hollow carrier perforating gun. Ferforate Gallup (6299-6563') w/l SPGF, for a total of 44 shots. Note: Charges should be placed so not to perforate casing collars. TOCH w/gun & ND lubricator.
- 16) NU frac service company & pressure up on back side to 2000 psi. Frac Gallup as specified by AOGC Engineering.
- 17) Clean out frac sand, swab & unload well, test for rate.
- 18) TOOH w/3-1/2" tubing & packer, RIH w/2-3/8" tubing & 4-3/4" MT bit and drill out bridge plugs @ 6600' & 7000'.
- 19) Pull tubing & 4-3/4" MT bit, RIH w/2-3/8" tubing open-ended to clean & kill well w/2% KCl water.
- 20) Set 2-3/8" tubing open-ended @ 7210'. ND BOPs, landing tubing in tubinghead, NU Christmas Tree & swab both zones.
- 21) Clean wellsite & move out.

