APPROVED BY \_

CONDITIONS OF APPROVAL, IF ANY :

# COPY TO O. C. C. SUBMIT IN TIPLICATE.

(Other ins lons on reverse de)

WITED STATES

	approved		
Budget	Bureau	No.	42-R1425

DINITED STATES	1616191
DEPARTMENT OF THE INTERIOR	

		GICAL SURV				5. LEASE DESIGNATION AND SERIAL NO	•
					<del></del>	NM 40658	_
	N FOR PERMIT T	O DRILL, I	DEEPE	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAMI	3
1a. TIPE OF WORK  DR	ILL 🛚	DEEPEN [		PLUG BA	ACK 🗆	7. UNIT AGREEMENT NAME	_
OIL 🔽 G	AS OTHER		511 20	NGLE X MULT		8. FARM OR LEASE NAME	_
2. NAME OF OPERATOR	OTHER CONTRACTOR			NE LEE EUNE		Buckskin Federal	
Alpha Twenty-	One Production	Company				9. WELL NO.	
3. ADDRESS OF OPERATOR		<u> </u>				2	
2100 First Na	ational Bank Bui	lding				10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (R At surface	eport location clearly and	in accordance wit	h any S	tate requirements.*)		Dollarhide - Queen	
<b>1874</b> FWL and	554 FSL, Sectio	n 18, T24S	, R38	E		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	_
At proposed prod. zon	ne					Sec. 18, T24S, R38E	
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE	#		12. COUNTY OR PARISH   13. STATE	
Seven Miles N	Northeast of Jal	, N.M.				Lea N.M.	
15. DISTANCE FROM PROPO LOCATION TO NEARES'			16. NO	. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	_
PROPERTY OR LEASE I (Also to nearest drip		0'		240		40	
18. DISTANCE FROM PROF TO NEAREST WELL, D			19. PR	OPOSED DEPTH	20. вота	BY OR CABLE TOOLS	_
OR APPLIED FOR, ON TH	IS LEASE, FT. 15	0		4000 <b>¹</b>	Ro	otary	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START	•
3174 G.L.						10-15-80	
23.	P	ROPOSED CASII	NG AND	CEMENTING PROG	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00т	SETTING DEPTH		QUANTITY OF CEMENT	_
15	12-3/4	33		30	Redim	ix to Surface	_
12-1/4	8-5/8	28		400	400 s	x. (Circulate)	
7-7/8	5-1/2	17	İ	4000	600 s	x. (Circulate)	
	'		'		- 1		
A 10-3/4-inch	n 2000-psi Rotat	ing Head w	ill b	e used while	drilling	g the	
	le. Before dril						
	oe equipped with	a 3000-ps	i 10-	inch Series 9	000 Doub	le-Ram	
Hydraulic E	BOP System.						
_	_				1		
	ther necessary Bing Prognosis.	OP Data Re	quire	d with the AP	D, see		
					<u>.</u>	3 162 2 1 1980	
						S. GEOEOGICAL SURVEY HOBBS, NEW MEXICO	
sone. If proposal is to preventer program, if an	drill or deepen directiona					iuctive zone and proposed new producti d and true vertical depths. Give blowd	
24.							
BIGNED	1	TIT	LE Ex	ecutive Vice	Preside	nt DATE 7-9-80	_
(This space for Fede	ral or State office use)						=
	,				- ا		
PREMIT NO.				APPROVAL DATE	1	- A.D.D.D.O.V.ED	

\*See Instructions On Reverse Side

TITLE

POPOLISTRICT SUPERVISOR

#### N MEXICO DIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION FLAT

Supersedes 0.-120 o the tive 1-1-65

Ronald J. Eidson

All distances must be from the outer boundaries of the Section perains Alpha 21 Production Company Buckskin Federal 38 East Lea 24 South 18 Actual Firitage Lacotion of West: South feet from the Producting Formation ipoind Level Elev 3174.1 Queen West Dollarhide 40\_\_\_\_\_ 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below 2. If more than one lease is dedicated to the well, outline each and identify the ownershi; thereof (both as to working interest and royalty) 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of No allowable will be assigned to the well until all interests have been consolidated (by communitization, unstization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION Tommy Phipps Executive Vice President Alpha Twenty-One Production Co. 7-9-80 Ownership: 100% W.I. Alpha Twenty-One Prod. Co. United States of America  $12\frac{1}{2}\%$  R.I.

1000

2000

#### DRILLING PROGNOSIS

# Well Identification:

	Lease Name:	Buckskin Federal
	Well No.:	2
	Location:	554 FSL & 1874 FWL Section 18, T-24-S, R-38-E
	County:	Lea
	State:	New Mexico
	Elevations:	
II.	Drilling Obje	ective:
•	¿Zone:	Queen
	Total Depth:	4000
	Pool Name: _	Dollarhide Queen
Produ	nctive Interva	1: 3750 - 3960

#### III. Formation Tops:

Zone	To	ps	Gross	Probable
	Drilling	Subsea	Interval	Fluid
	Depth	<u>Depth</u>	<u>Drilled</u>	Production
Ogallala (Surface)				, the the tab
Dewey Red Beds & Shale		-		· · · · · · · · · · · · · · · · · · ·
Rustler Anhydrite	1280	+ 1894	1280	
Salado Salt	1560	+ 1614	280	
Tansi1	2700	+ 474	1140	
Yates	2810	+ 364	110	
Seven Rivers	3050	+ 124	240	
Queen	3600	- 426	550	Hydrocarbons
Grayburg	3960	- 786	360	
Total Depth	4000	<u>- 826</u>	4000	

## IV. lole Size.

Hole	Bit Size	T.D.	Gross Interval
Conductor	15	30	30
Surface	12 1/4	400	370
Production	7 7/8	4000	3600

## V. Casing Program:

#### A. Casing Design

String	0.D.	Casing Wt.	Size Grade	Threads	Amount	Cond.
Conductor	12 3/4	33	В	8 Rd	30	New
Surface	8 5/8	28	В	8 Rd	400	New
Production	5 1/2	17.0	J-55	8 Rd	4000 .	New

## B. Float Equipment:

Surface Ca	sing: 8	5/8-inc	h guide-sho	e and 8	5/8-inch	insert	float.	<del></del>
Production	Casing:	5 1/2-i	nch guide-s	hoe and	5 1/2-inc	h float	collar	with

# C. Centralizers:

automatic fill.

Surface Casing:	One Centralizer	at	the	float	collar	and	one	centralizer
two joints abo	ve float collar.							
<u> </u>				<del>, , , , , , , , , , , , , , , , , , , </del>				

	Production Casing: Run a total of 8 centralizers. Place one centralizer
	at the guide shoe and one centralizer at the float collar with the
	remaining being placed 80 to 90 feet apart or every other joint.
),	Wellhead Equipment:
	Larkin 8 5/8 x 5 1/2 Fig 92 Casinghead. Larkin 5 1/2 x 2 3/8
	Type TH tubinghead complete with slips and bell nipple.
lud	l Program
۱.	Surface Hole:
	Drill surface hole with a fresh-water gel (approximately 8.5 lb/gal)
	while maintaining a high enough viscosity to adequately clean hole. Add
	paper as needed to control excess seepage. Before drilling below surface
	pipe, jet cuttings out of working pit into reserve pit and then switch
	from circulating through working pit to circulating through reserve pit.
	•
	•
В.	Production Hole:
	Before entering salt section, switch mud system to a saturated salt system.
	(10.1 lb/gal). At 2600', switch back out of reserve pit and back into
	working pit. Also, at this point, start adding starch and brine gel to lower w
	loss and raise viscosity. The mud shall have a water loss of 10 cc/30 min.
	and a viscosity of 34 to 36 sec. before reaching 2800' (top of Yates).

VI.

•

•	•
Cen	menting Program
	Surface Pipe:
•••	Cement surface pipe with approximately 400 sacks (or as required) of A
	Class-C cement containing 2% Calcium Chloride. Before resuming drill:
	operations, allow cement to set for a sufficient time to gain a 500-p
	compressive strength (18 hours). Also, before drilling plug, the pip
	be tested to 700 psi for 30 minutes.
	•
_	
	Production String:
	Cement long string with approximately 600 sacks of a 50-50 blend of Po
٠.	and API Class-C containing 18% salt and 2% gel and having a slurry wei
	14.1 lb/gal. Pump 30 barrels of water ahead of the cement to help rem
	mud filter cake. Once top plug is bumped, pressure test casing to 150
•	The total specified cement volume of 600 sacks should be sufficient to
	the cement top back to the surface. Before the cement job
	is actually performed, the required cement volume will be checked again
	open hole caliper log to determine the actual amount of cement necessa

For	mation Evaluation:
A.	Drilling Rate:
	1. The drilling rate shall be monitored with a geolograph from the su
	to total depth.
	2.
в.	Well Cutting Samples:
в.	Well Cutting Samples:  One set of well cutting samples shall be gathered every 10 feet fr
в.	One set of well cutting samples shall be gathered every 10 feet fr
<b>B.</b>	One set of well cutting samples shall be gathered every 10 feet from the surface to total depth. Each sample is to be cleaned, bagged.
В.	One set of well cutting samples shall be gathered every 10 feet from the surface to total depth. Each sample is to be cleaned, bagged.  tagged and then grouped into bundles of ter samples per bundle wit
В.	One set of well cutting samples shall be gathered every 10 feet from the surface to total depth. Each sample is to be cleaned, bagged.
B	One set of well cutting samples shall be gathered every 10 feet from the surface to total depth. Each sample is to be cleaned, bagged.  tagged and then grouped into bundles of ter samples per bundle wit
В.	One set of well cutting samples shall be gathered every 10 feet from the surface to total depth. Each sample is to be cleaned, bagged, tagged and then grouped into bundles of ter samples per bundle with bundle representating each 100-feet drilled.
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Coring:	None	
Well Logging:		
	Open-Hole Logs	
Log		Interval
	2" = 100'	5" = 100'
CDL-Neutron-GR	T.D Surface	T.D 2000'
Guard - Forxo	T.D 2000'	T. D 2000'
	Good Nole Logg	
	Cased-Hole Logs	Interval
Log	2" = 100'	5" = 100'
GRN-CCL	T.D 2000'	T.D 2000'
		•
	Log Distribution	
Company		No. of Copies
	Field Prints	
Alpha Twenty-One Produc 2100 First National Ban Midland, Texas 79701	tion Company 8 k Building	
United States Geologica P. O. Box 1157 Hobbs, New Mexico 8824		2
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	\$	

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A 10 3/4 2000-psi	rotating head wil	1 be used while drill	ing the surfa	ace hole.
<del></del>		surface pipe, the wel		
	<u> </u>	ram hydraulic prevent		
shall be used thr	ough the running o	f the production stri	ng.	
Attached is a dia	gram of the requir	ed BOP system.		<del></del>
				·
Hazardous Zones:				
None entisinated				
None anticipated	·			<del></del>
	· · · · · · · · · · · · · · · · · · ·			
Duration of Oper	ations:			
Duration of Oper				
		c drilling and complet	ing the subj	ect well is
The total elapsed	l time required for	drilling and complet	ing the subj	ect well is
	l time required for	drilling and complet	ing the subj	ect well is
The total elapsed	l time required for	c drilling and complet	ing the subj	ect well is
The total elapsed	l time required for	drilling and complet	ing the subj	ect well is
The total elapsed expected to be 3	l time required for	c drilling and complet	ing the subj	ect well is
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The total elapsed expected to be 3	l time required for	c drilling and complet	ing the subj	ect well is

Petroleum Information.	RE-ISSUED CO	MPLETION	V	Copyrigited Reproduction Prohibited
COUNTY LEA FIELD	Dollarhide		STATE	NM
OPR ALPHA TWENTY-ONE PRO	DUCTION CO.		API	30-025-2702
o 2 LEASE Buckskin I	Federal		MAP	
Sec 18, T24S, R38E			CO-ORD	
554 FSL, 1874 FWL of	Sec			13-17 NM
16 mi SE/Eunice		o 10-6-8	) CMP	12-20-80
	WELL CLASS: IN	IIT D FIN	DO LSE.	CODE
12 3/4-30-set	FORMATION	DATUM	FORMATIO	DATUM
9 5/8-418-250 sx				
7-4000-1200  sx				
2 3/ <b>8-38</b> 15				
	1D 4000 (C	(UEN)	PBD	3954
P (Queen) Peris 3761-38	09 P 35 BOPD +	10 BW.	Pot	

based on 24 hr test. GOR 571; gty 35

PD 4000 RT 3174 GL OPRS ELEV CONTR

1.7. 9-8-30

(Queen)

TD 4000; PBD 3954; Complete 1-12-81

Perf (Gueen) @ 3761, 3767, 3772, 3773, 3774,

3775, 3799, 3802, 3805, 3807, 3809

Adii :3761-3809) 2000 gals

Frac (3/51-3809) 50,000 gals + 110,000# sd

LOG TOPS: kustler 1255, Tansill 2595,

Tates 2823, Queen 3618

COMPLETION ISSUED 1-17-81

ARTERSTEE TO ADD ACED, FRAC, LOG TOPS, 3-7-31

GRANCING A TUBING

1-3-17 NM ic 30-025-70447-80